

VHF-UHF DIGEST

The Official Publication of the Worldwide TV-FM DX Association

JANUARY 1994

WRHN FM 100.3

THE SOUND OF WISCONSIN'S GREAT NORTHWOODS

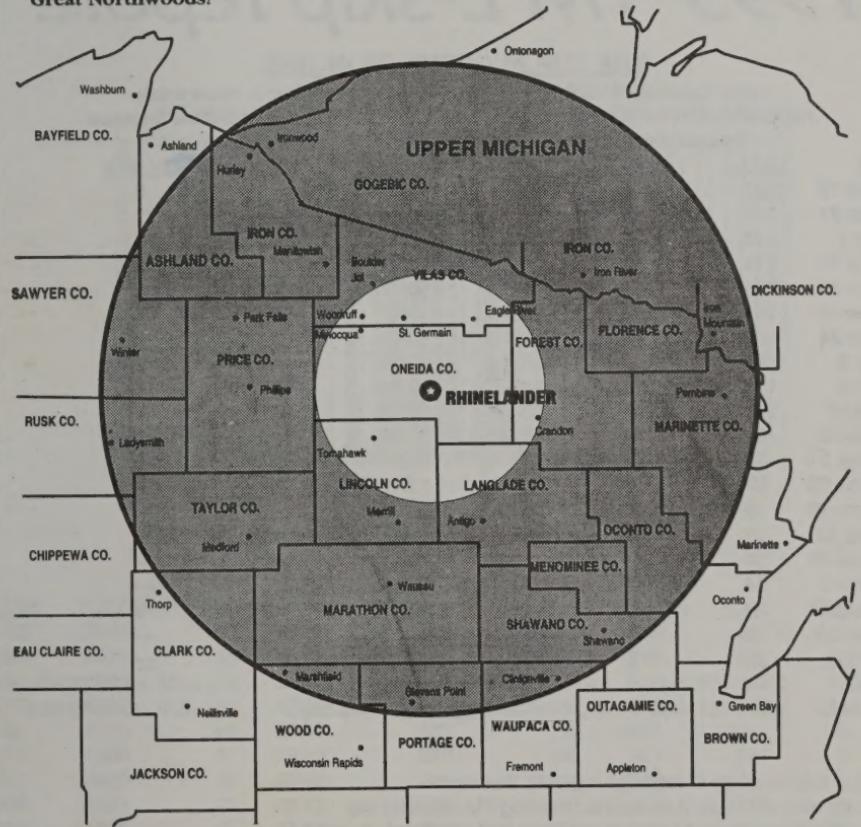
1240 AM **WOBT**

YOUR NEWS AND INFORMATION STATION

WRHN ...

- 100,000 Watts of Power!
- Targeting Adults 25-54 Years-Old!
- Lite Adult Contemporary Music!
- Regional News/Weather Information!
- ABC Network News!
- Paul Harvey News!
- 20 Counties of Coverage in Wisconsin's Great Northwoods!

- News/Information Station!
- Adults 25+ Target!
- ABC Network News!
- Local News, Weather and Sports Since 1947!
- Paul Harvey News!
- Pure Gold From the 50's, 60's and 70's!



OUTER CIRCLE - WRHN COVERAGE

SPECIAL REPORT

Greg Coniglio
5100 Glenwood Drive
Williamsville, NY 14221
e-mail: coniglio@acsu.buffalo.edu
OR
V131KKDN@UBVMS.BITNET

1993 was another mediocre skip year, much like last year. In fact, note below how close statistically the two seasons were, within 17 total loggings, and the same number of days. And in both seasons June was the best month, although June dominated even more this year, with 66% of the total loggings coming in that month. It was the 2nd best June of the past 10 years. May was by far the most dismal showing that month has ever put out, with only 57 total loggings the whole month, which is less than the average number of loggings per day in June! The best periods were mid to early June, and early July, before really tapering off in late July. One notable absence this year was the lack of a widespread "monster" opening; this year's leading skip day, June 12, netted 297 loggings, which would put it only 4th place last year, hardly a banner year in itself. And no FM opening this year was heard by more than 18 DXers, while 26 was the high last year. Despite this, there were enough mediocre openings to at least salvage the season. The average number of loggings per skip opening was strikingly similar to last year's average: only a difference of 0.25 loggings!

1993 FM E-skip report.

THE TOP 20 OPENINGS IN 1993.

Note: Openings in October and November not included in these totals
Reports taken from Northern and Southern FM DX up to the December 93 issue
Special thanks to Doug Smith for assistance compiling this report!

DATE	TOTAL	#rep	avg	MUF	high	TV rank
1. June 12	297	18	16.50	107.9	49	3
2. June 21	229	17	13.47	107.9	46	1
3. July 1	223	15	14.87	107.9	38	5
4. June 18	211	15	14.07	107.9	43	8
5. June 3	204	9	22.67	107.7	77	7
6. June 16	191	11	17.36	107.7	62	15
7. June 24	163	16	10.19	107.9	35	6
8. July 3	150	9	16.67	107.5	41	2
9. July 5	139	7	19.86	107.9	44	16
10. July 6	135	15	9.00	107.9	40	4
11. June 9	94	6	15.67	107.9	47	18
12. June 11	73	7	10.43	103.1	28	12
13. June 29	67	6	11.17	107.7	18	14
14. June 15	58	10	5.80	107.3	25	—
15. July 12	37	8	4.63	105.7	8	—
16. June 25	36	8	4.50	107.1	12	—
17. June 8	34	3	11.33	107.5	18	—
18. June 17	32	5	6.40	104.1	12	19
18. July 30	32	8	4.00	102.9	15	—
20. July 2	29	3	9.67	107.5	15	—

TOTAL: 2688 (55 days) avg of 48.87 loggings per skip day,
1992 stats: 2676 (55 days) avg of 48.61 loggings per skip day,

avg MUF = 101.43 Mhz
avg MUF = 101.38 Mhz

Key:

TOTAL = total number of loggings reported that day

#rep = number of DXers that reported hearing FM skip that day

avg = average number of loggings per DXer that day (total # rep)

MUF = maximum useable frequency noted that day

high = most loggings reported by an individual reporter that day

TV rank = ranking of this skip day in Doug Smith's 1993 TV Es report

1993 FM E-skip report continued...

BREAKDOWN BY MONTH

<u>MONTH</u>	<u>month total</u>	<u>no. of skip days</u>	<u>avg</u>	<u>avg MUF</u>
JANUARY	3	1	3.00	93.30
MAY	57	9	6.33	98.90
JUNE	1762	24	73.42	102.37
JULY	809	14	57.79	103.24
AUGUST	46	5	9.20	100.50
SEPTEMBER	11	2	5.50	93.10

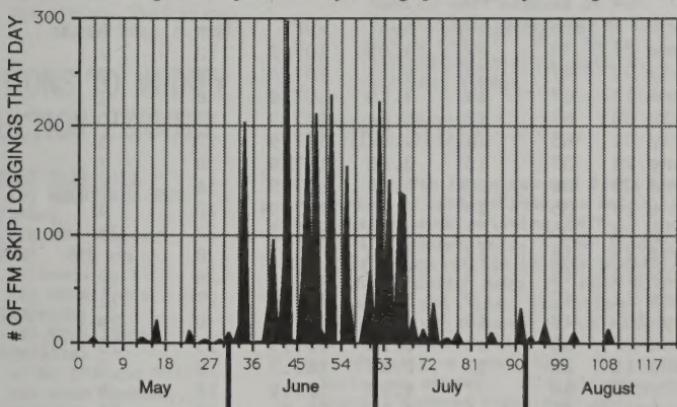
(October and November openings not included)

BREAKDOWN BY MUF

<u>MUF noted</u>	<u># of openings reaching this MUF</u>	<u>percent</u>
up to 108.0+ Mhz	0	0.00%
up to 107.9 Mhz	11	20.37%
up to 105.1 Mhz	25	45.45%
up to 100.1 Mhz	31	56.36%
up to 98.5 Mhz	33	60.00%
up to 96.1 Mhz	38	69.09%
up to 92.1 Mhz	48	87.27%
up to 88.1 Mhz	55	100.00%

1993 FM SKIP SEASON IN REVIEW

Each vertical grid line represents 3 days. The graph covers May 1 to August 31, 1993:



A look back...

<u>YEAR</u>	<u>TOTAL</u>	<u>#days</u>	<u>avg</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>
1993*	2688	55	48.87	57	1762	809	46	11
1992	2674	55	48.61	840	1523	140	99	0
1991	4003	78	51.32	483	1064	1929	356	10
1990	4980	68	73.24	2019	1603	1258	74	13
1989	3848	74	52.00	581	550	2031	531	0
1988	1965	67	29.33	357	1186	307	33	0
1987	4922	82	60.02	209	2661	1686	300	0
1986	2951	73	40.42	802	978	469	573	18
1985	1786	64	27.91	170	842	614	11	66
1984	1639	87	18.84	550	515	332	72	11
1983	3856	76	50.74	373	1525	1714	112	0

* 1993 totals are not yet complete (missing October & November data), data excludes December openings

1993 TV E-skip Report

Monthly report:

Month	Total loggings:	Es days:	Avg. loggings/day:
December '92	72	7	10.29
January	15	2	7.50
February	none		
March	none		
April	none		
May	183	20	9.15
June	698	27	25.85
July	502	29	17.31
August	115	17	6.76
September	none		
October	none		
November	none		
Annual summary	1585	102	15.54

Total loggings: All IDd Es loggings reported to ETV/WTW.
 Es days: All days on which at least one DXer reported
 an IDd Es logging.
 Average: Average number of Es loggings (by all
 reporters) per day.

Best days:

Date:	Total:	Rptrs:	Avg:	MUF:	Max.:	FM	Rank:
1 June 21	90	22	4.09	107.9	13		2
2 July 03	87	14	6.21	107.5	16		8
3 June 12	67	16	4.19	107.9	8		1
4 July 06	67	12	5.58	107.9	13		10
5 July 01	65	14	4.64	107.9	17		3
6 June 24	57	15	3.80	107.9	10		7
7 June 03	56	10	5.60	107.9	14		5
8 June 18	55	13	4.23	107.9+	10		4
9 July 08	55	5	11.00	107.5	22		22
10 June 25	48	12	4.00	6	8	no FM	
11 July 14	48	5	9.60	97.3	26		42
12 June 11	47	9	5.22	107.9	27		12
13 May 23	40	10	4.00	95.1	9		29
14 June 29	39	11	3.55	107.9	13		13
15 June 16	35	13	2.69	107.7	12		6
16 July 05	34	7	4.86	107.9	14		9
17 August 10	31	6	5.17	95.7	10		33
18 June 09	30	10	3.00	103.1	11		11
19 June 17	28	9	3.11	107.9	9		18
20 June 28	28	11	2.55	100.3	9		21

Total: Count of all IDd Es loggings reported this date.
 Rptrs: Count of all DXers reporting at least one Es logging
 this date.
 Avg: Average number of loggings per DXer on this date.
 MUF: Maximum usable frequency reported.
 Max: Most loggings reported by one DXer.
 FM Rank: Ranking of this date in Greg Coniglio's FM Es report.

Good luck in 1994!

Doug Smith (thanks to Greg Coniglio for FM ranks & MUF)

TV News

Doug Smith
14 Brookside Court
Nashville, TN 37209
615-356-8305
CIS 72777.3143



Abbreviations used in this column:

ERP= Effective Radiated Power
in kW

HAAT= Height Above Avg. Terrain

nc= no change

TL= Tower Location

CP= Construction Permit

Pr= Province (of Canada)

*= Non-commercial

CRTC= Canadian Radio-Television
Commission

DBS= Direct Broadcast Sat.

APPLICATIONS FOR NEW STATIONS

St	Ch	ERP	HAAT	Call	City;Applicant
CA	32	1320	491	San Francisco;	
				Bay Area Multi-	
				cultural Telecomm.	
CA	40	1360	906	Santa Ana;	
				Maravillas Bcstg Co.	
NE	18	1855	353	Albion; Fant Bcstg	
				Co. of Nebr.	

APPLICATIONS TO MODIFY CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City
MI	8	29.6	190	WDHS	Iron Mtn.
		(was 2kW/155m)			
OK	53	1770	182	KWMJ	Tulsa
		(was 4900kW)			
		(TL:8181 S. Lewis St.)			
PR	9	178	857	WSUR	Ponce
		(was 58.9kW/846m)			
SC	63	13	165	WQH	Sumter
		(was 5000kW/343m)			
		(TL:jct. of SC-378 and 763)			
WA	22	84	429	KSKN	Spokane
		(was 230kW/395m)			

APPLICATIONS TO CHANGE EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
CO	*8	241	715	KTSC	Pueblo
		(was 234kW/727m)			
PR	11	nc	355	WLII	Caguas
		(was 360m)			

MODIFICATIONS GRANTED TO CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City
MA	48	3000	nc	WYDN	Worcester
		(was 5000kW)			
MN	45	nc	375	KVBM	Mpls.
		(was 191m)			

CHANGES GRANTED TO EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
NJ	68	2630	439	WHSE	Newark
		(was 2190kW/436m)			

CALL LETTER CHANGES

Was	Now
WQTV	WABU-68 Boston, MA
WIIM	WDHS-8 Iron Mtn., MI
WFCT	WFAY-62 Fayetteville, NC

NEW STATIONS ON THE AIR

Katy, TX: KNWS 51+
2560kW/294m
TL 29°35'20"N, 95°33'26"W
in the tower farm south of Houston.
Seen by Jeff Kruszka on Nov. 19, who says they went on the air on Nov. 3. This is an independent station with an all-news format.

OTHER STUFF

The San Francisco and Santa Ana new station applications are mutually exclusive with existing KMTP-32 and KTBN-40 respectively. The Albion, Nebraska application is made possible by the pending move of KCAN-8 to Lincoln, and the resulting new allocation of channel 18 to Albion. The Iron Mountain call letter change is actually a year old, it never cleared my source. (I'm planning on changing sources early next year...)

Looking at December *LPTV Watch*, Fred McCormack believes the K14AQ calls for the Billings TBN are wrong, with that LPTV having been deleted in 1991. K05HS (the first TBN in Billings) was granted a CP to move to channel 14 in May 1993, but calls weren't given. (it's possible that, until a final license is granted, the correct calls for channel 14 are K05HS!)

The Supreme Court will begin hearings on the constitutionality of the must-carry provisions of the

(Other Stuff, contd.)

Cable Act on January 12. The Justice Department, FCC, and National Association of Broadcasters support the rules; cable interests oppose them.

An article in the Dec. 13 issue of *Broadcasting and Cable* indicates that ethnic-formatted W23AT Chicago is using the "non-ID" WFBT. Indeed, the article never mentions the W23AT calls!

Boston University, which recently purchased WQTV-68 (now apparently WABU-68) and WCVX-58 Vineyard Haven, has now also purchased WNHT-21 Concord, New Hampshire. GM Robert Gordon says the purchase was made to "achieve signal coverage parity".

Another station has been purchased by home-shopping network ValueVision. This time, it's ABC affiliate WAKC-23 Akron/Cleveland, which we can probably expect to switch to home shopping.

The shortest commercial ever has aired on KING-5 Seattle. The candy commercial was solicited by KING's *Evening Magazine* program, which wanted to air the shortest & most expensive spot. The commercial lasted four frames (there are 30 TV frames in a second...) and cost \$3,780; extrapolated to a 30-second commercial, it would cost \$28,350, \$17 more than the most expensive spot in last year's Super Bowl...

LPTV WATCH

Call	St City; programming
K07UU	AK Fairbanks; Fox "KFBK"
W14AS	NC W. Asheville; WHNS-21
K20DQ	OK Sulphur; local
W21AQ	VA Hampton; ACTS relig.
W24AL	GA Atlanta; HSC
W24BA	NC Tryon; NC ETV
K27AZ	OK Lawton; TBN
K30DI	TX Wichita Falls; FAM
W32??	NC Greenville; TBN
W33AT	GA LaGrange; CMT,MSTV,loc.
W34AG	GA Rome; Main St. TV
K35BO	OK Lawton; HSN
W35AV	NC Black Mtn.; WHNS-21
W40AZ	DE Wilmington; TBN
W42??	GA Atlanta; tourist
W55BM	GA Marietta; TBN
W59AR	NC Brevard; NC ETV
W66BU	NC Sylva; WHNS-21
W67CI	GA Woodstock; Telemundo

This month courtesy of Howard Fountain, Jerry Stuart, Stephen West, and Greg Coniglio.

FORUM

Neil Griffin, Kirksville MO:

Neil sent a brief E-mail indicating that KTVO-3's retransmission problems in Kirksville have been solved. The station signed a no-compensation agreement for carriage until Jan. 15, 1995. "Station manager Bob Kizer said the reason was that the viewers were caught in the middle, and the fact that the station was unavailable to those in hospitals and nursing homes (no mention of dormitories with brick and steel construction!). That leaves KTVO off cable systems in Macon and Marceline, Missouri and Lockridge, Iowa."

John Zeis, Exton PA:

John writes about new TBN activity in his area: "W40AZ, Wilmington, DE began operation 12 November." "The transmitter is north of Wilmington, just south of the PA-DE border. May be using a directional antenna as the signal here (16mi. NNW) is fairly snowy. The choice of channel is strange with only a 63 mile separation from WMGM, Wildwood-Atlantic City. Cochannel interference is almost constant here."

John (and several other writers, including myself) noticed TBN running a fund drive, attempting to raise money for 60 additional stations. He noticed Nashville on the list- weird, as WPGD-50 and W36AK already cover this city pretty well. Unless they want to spend the money to replace W36AK's transmitter with something that won't go off the air every other week!

The TBN announcer said "TBN no longer builds low power stations, but all will be 'Medium Power' with 1000 watt transmitters. Each will cost \$100,000 to \$120,000." Well, TBN can call them "medium power" but in the eyes of the FCC, 1000w is still a LPTV! Still, the CBA (trade association of LPTVs) may want to take note; they've been trying to distance themselves from the "low power" label, this may be the way to do it!

Fred McCormack, St. Paul MN:

Fred has provided quite a bit of LPTV info, as well as leads on several of the off-the-air stations in the list at the end of the column. (including several that don't appear on the list because he confirmed they're on!)

(Forum, Fred McCormack, contd.)

Also, with regard to Matt's & my notes about IDING home-shopping stations, Fred says ValueVision (carried in Minneapolis on K07UI and K62BD) can be identified by the phone number 1-800-788-2454. They keep a logo in the lower right corner of the screen, but the phone number is easier to read. Both HSS and HSC can be seen over the air in the Minneapolis area, HSS on K35CY and HSC on KXLI-41.

Bill Nienajadly, Clifton NJ:

This month's pick clipping... from the Sept. 27 Wall St. Journal.. "In Britain, unlicensed telly watching is a crime..."

The article details the work of a despised division of the British Post Office, the unit that enforces the requirement that all TVs be licensed. Yes, in Britain you must have a license not only for a TV transmitter, but for a receiver. Revenues from the \$125 annual license fee support the BBC, allowing it to operate without commercials.

This license enforcement unit has been quite successful of late, catching as many as 1,000 unlicensed sets a day. (they still estimate there to be 1,700,000 unlicensed sets, about 13% of all homes in the country)

Blind people have been convicted of owning unlicensed sets; so have recent immigrants who spoke no English, had no antenna, and used the set only to watch videotapes from their native countries. Further, one can be convicted for watching an unlicensed set at someone else's home, even if your own set is licensed! About the only excuse that does work is if the unlicensed TV doesn't work.

The license police use two tactics to find outlaws. The most efficient is a computer database; it contains the address of all 24million UK households, and cross-references it against license holders, providing a regular list of households with no license, or a license about to expire. Another, higher-tech, method is a "Television Detection" van. This unit can determine whether a TV is operating in a given home, and if so, to which channel it's tuned. While the article doesn't say so, I'm sure this is done by detecting leakage from the set's local oscillator - it has been rumored that ratings services here in the USA have tried similar schemes to determine who's watching what channel.

Another item supplied by Bill notes that a TV violence code has been

voluntarily adopted by Canadian TV stations. While compliance with the code is voluntary, the CRTC can look at compliance when deciding whether to renew a given stations' license.

Dave Pomeroy, Topeka KS:

Dave wrote from "the road" in a Dallas-area motel room to confirm that KLDT-55 is, in fact, on the air. "I saw it in Topeka on Sept. 28 and telephoned them while in Dallas. They indicate they are on the air 24hrs. with their transmitter near Lewisville. (NW of Dallas, near Lake Dallas)" Fred McCormack says he's heard from Robert Delaney that Home Shopping Spree has been seen on this station.

Jerry Stuart, Lawton OK:

Jerry sent in a bunch of LPTV info. Some more notes on that subject from him: "Off air: K53DS-owned by KJTV ch. 18, was used for same (HSN?) as K35BO but could not get on Lawton Cablevision & was taken off air. License & transmitter were offered to Lawton Public Schools who said no, due to pressure from CATV."

"We do have a PBS translator on 36 rebroadcasting ch. 13 from Oklahoma City (KETA) but have never found their call. Also, channel 54 Duncan, same as ch. 36." (these are K36AB and K54BB, respectively-ds) Jerry has also seen a Channel America on 62 in San Antonio - I have nothing on this station.

Keith Short, Columbus OH:

WSYX-6's new tower is on the air, as of Oct. 11. "Unless a news event intervenes, Channel 6 will open the newscast with a live shot of Connelly symbolically throwing a switch. (a technician in the control room will activate the real one.)" On that date, at the beginning of their 6PM newscast, the station began broadcasting from a new 1000' tower in Green Lawn Cemetery, replacing a 750' tower on the Ohio State University campus. VP Terry Connelly told the Columbus Dispatch the new tower cost \$3million and required four years of negotiation with federal, state, and local governments.

The Oct. 16 Chillicothe Gazette noted that WWAT-53 there has been sold to Fant Broadcasting of Alabama for \$2million. Keith asks "With WWAT-TV changing hands, what kind of programming can I expect to see in the coming months?

(Forum, Keith Short, contd.)

Does anybody know what kind of programming WNAL-TV (Fant Broadcasting's other station) carries?" Last time I saw it, WNAL-TV was a semi-satellite of Fox affiliate WTTO-21 Birmingham; before the LMA which resulted in this relay situation was signed, WNAL was a regular independent serving Birmingham, as well as Gadsden and Anniston. I don't expect any major change in direction for WWAT.

Closed-captioning, which makes TV accessible to the deaf, is now fairly well established. Now, WOSU-34 is making TV accessible to the blind. The PBS affiliate is beginning to offer "Descriptive Video Service". This service uses the Second Audio Program- SAP- function on stereo TVs to provide a verbal description of physical gestures, facial expressions, and geographical settings. The first program to be presented is "Porgy & Bess", with other PBS drama and nature programs to follow.

On the retransmission-consent front, all Columbus stations reached an agreement. WBNS-10 actually selected must-carry & didn't ask for any compensation. WTTE-28 signed a 60-day extension after failing to get local cable systems to sign on to the standard Fox agreement. Reportedly, WCMH-4 asked for a second channel for an all-news program but failed to get it. Cable representatives told the Dispatch that WCMH and WSYX-6 have settled for news headline inserts on cable channels including CNBC and the Weather Channel.

Tom Bryant, Nashville TN:

Wilson Co. Chancellor (judge) C.K. Smith has given Dr. Joe Bryant another chance to auction his stock in WJFB-66. If this second auction is no more successful than the first, 1991, auction, Jim Owens, producer of the TNN program *Crook and Chase* could be liable for \$1.5million. A *Nashville Banner* article says Owens bought 49% of the station in 1990. However, Bryant said Owens stopped paying for his 49% in 1991, and Bryant was forced to sell his stock for \$250,000 at auction. Owens claims he owes nothing, and that the low price obtained by Bryant was because of poor handling of the sale- the station wasn't advertised in any broadcasting publications, only the *Lebanon Democrat*. WJFB has been dark since April 1991, when the transmitter was disabled by lightning.

In another *Banner* article, WDCN-8, Nashville's PBS affiliate, is

asking Metro government for four additional full-time channels on the cable system here. One would carry rebroadcasts of PBS shows, foreign-language programming, and Congressional hearings. A second would carry adult-education and professional development courses. The third would air instructional programs for children, and the fourth instructional programs for older students. In addition, WDCN plans to expand its channel 8 operations to 24 hours. (it currently broadcasts from roughly 7AM to 11PM)

Viacom Cable, which is negotiating for an early franchise renewal, doesn't seem favorably inclined to the proposal.

Finally, the leader of Prairie Public Broadcasting (North Dakota) is dead. Dennis Falk died of cancer in mid-November; he'd expanded the system from one TV station in Fargo to the current seven TV and five radio stations. Tom knew Falk & says he was very DXer-friendly.

Keith Smith, St. Ann MO:

An unconfirmed report in the Nov. 28 *St. Louis Post-Dispatch* notes that River City Broadcasting is buying KRRT-35 Kerrville/San Antonio. Reportedly, if the deal is completed, River City would then affiliate its other stations (WTTV-4/WTK-29 Indianapolis and KABB-29 San Antonio) with the new Paramount network. (I believe River City would be allowed to control both KABB and KRRT because KRRT's transmitter is far enough west of San Antonio that coverage overlap doesn't violate FCC standards.)

From the Nov. 24 *Post-Dispatch* (and the AP), a federal appeals court has struck down a FCC regulation (mandated by Congress) prohibiting airing of "indecent" programs on radio and TV between 6AM and midnight. The regulation was ruled "an unconstitutionally broad encroachment on free speech".

Keith asks whether this means we'll be seeing people having sex, or "cutthroat" violence, on regular TV? I doubt it. First, this ruling applies only to "indecency"- "obscene" programming continues to be prohibited. I'm not going to try to put an absolute definition on the difference (if government lawyers can't, I sure can't!) but in general, anything X-rated continues to be proscribed for TV.

(Forum, Keith Smith, contd.)

Secondly, there's the business side to consider. Utterly "clean" family fare may not score too well in the ratings- but extremely "dirty" programs will also turn off enough viewers to probably prove economically unfeasable.

During Thanksgiving week, Keith saw TBN preempt "Praise the Lord" not with fundraising spieles- but movies! He doesn't say exactly what kind of movies, but I gather they weren't specifically religious in nature?

Both Keith and Greg Coniglio mention a controversial Canadian murder case. A judge (fearing he'd have trouble finding an unbiased jury?) issued a "gag order" prohibiting publicity on the case. Reportedly, Canadian border police actually arrested some people for attempting to bring copies of the *Buffalo (NY) News*, with articles on the case, into Ontario.

While of course a Canadian judge has no authority to restrict what's aired on U.S. broadcast stations, WGRZ-2 agreed to "black out" *Current Affair* and *Now* stories on the subject; indeed, a total of 16 NBC affiliates near the border agreed to black out parts of the *Now* story. And, some Ontario cable systems have now at least temporarily dropped U.S. stations which might carry the story.

Greg Coniglio says he's read that the CRTC is unhappy with Canadian TV and cable for the blackouts, charging censorship! Quoting Greg, "...I have been told the rumors going around Southern Ontario as a result of the ban are worse than the truth is!"

Finally, Keith wants to know if any stations besides KNLC-24 carry the World Harvest TV program "The American Times"?

Dave Sinclair, Vancouver BC:
(via Fred McCormack)

Dave has heard that the CRTC will hold hearings for licenses for new TV stations in Edmonton and Calgary this month.

He also passes along an article from the Nov. 12 *Vancouver Sun* in which two local hospitals evicted unauthorized equipment which had been placed in their basements by Rogers Cable. The equipment assisted Rogers in relaying data and audio signals for several Vancouver businesses, radio stations, and the CBC. Hospital spokesmen told the *Sun* they were first aware of the equipment when Rogers

technicians, who are on strike, threatened to picket the hospitals unless the gear was removed.

Lawrence Marecki, Cleveland OH:

The NFL/bar battle over pickup of blacked-out football games continues in Cleveland. In past years, the NFL has successfully prevented the showing of satellite feeds of football games in public places. In response, many bars have installed large antennas, with which to receive the games from "unblacked-out" stations in other cities.

Now, according to articles in the *Cleveland Plain Dealer* (great name for a paper!) the NFL is suing to attempt to stop this method. In mid-October, hearings were held in U.S. District Court to attempt to determine what makes a "common household antenna".

NFL expert Jack Hurray surveyed 624 outdoor antennas near the bars & found 6% had 10 or more elements, "the metal prongs that improve the reception qualities of an antenna". He said a "common antenna" has four or five elements and is 4-5' long. The antennas on the bars had 9 or more elements & were 7-10' long.

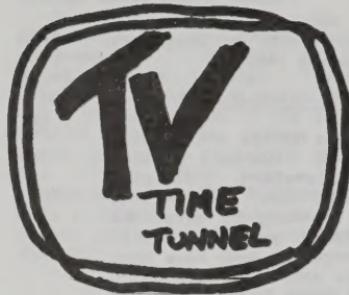
The bar owners hired their own expert, Walter Glazer. Glazer surveyed 420,000 northeast Ohio households with outdoor antennas (it may be a good sign for TV DXing that there still are 420,000 northeast Ohio households with outdoor antennas!) and found that 40% can receive broadcasts from Toledo, Erie, Detroit, Columbus, and/or Pittsburgh.

DARK STATIONS?

Can anyone tell me if any of the below stations are on the air- or if any U.S. VHF stations not on this list are off? Thanks!

KOFT-3 Gallup	KZJC-4 Flagstaff
KLXO-7 El Centro	KRBQ-7 Sheridan
WWFD-8 Key West	WDHS-8 Iron Mtn.
WSVI-8 Christiansted	
KZXC-9 Anchorage	KVPY-9 Flagstaff
KUSM-9 Bozeman	WSUR-9 Ponce
KHBB-10 Helena	KTRG-10 Del Rio
WBNN-10 Charlotte	Amalie
KCHF-11 Santa Fe	KRXI-11 Reno
WLII-11 Caguas	WOLE-12 Aguadilla
KUSG-12 St. George	
WTJX-12 Charlotte	Amalie

These are VHF stations which have never been reported to the DX columns.



PREPARED FOR THE WTFOA BY TOM BRYANT, NASHVILLE, TN. THANKS TO WTFOAER TOM YINGLING FOR SENDING IT TO "TIME TUNNEL".

This listing of 'post-freeze' allocations which became effective April 14, 1952 makes for a fascinating study of long-term spectrum use by U.S. tv broadcasters. What has changed...and what hasn't during the past 40 years are of almost equal interest. (Reprinted from a National Radio Institute article authored by Mr. John Battison.)

ALABAMA

	Channel No.
Andalusia	29
Anniston	37
Auburn	*56
Bessemer	54
Birmingham	6, *10, 13, 42, 48
Brewton	23
Clanton	14
Cullman	60
Decatur	23
Demopolis	18
Dothan	9, 19
Enterprise	40
Eufaula	44
Florence	41
Fort Payne	19
Gadsden	15, 21
Greenville	49
Guntersville	40
Huntsville	31
Jasper	17
Mobile	5, 8, *42, 48
Montgomery	12, 20, *26
Opelika	22
Seirna	58
Sheffield	24
Sylacauga	64
Talladega	27
Thomasville	38
Troy	45, 51
Tuscaloosa	16
Tuskegee	7
University	

ARIZONA

	Channel No.
Ajo	14
Bisbee	15
Casa Grande	18
Clifton	25
Cooldige	30
Douglas	3
Eloy	24
Flagstaff	9, 13
Globe	34
Holbrook	14
Kingman	6
Mesa	12
Miami	28
Morenci	31
Nogales	17
Pima	3, 5, *10, 15
Prescott	15
Safford	21
Tucson	4, *6, 9, 13
Williams	25
Winslow	16
Yuma	11, 13

ARKANSAS

	Channel No.
Arkadelphia	34
Batesville	30
Benton	40
Blytheville	64, 74
Camden	50
Conway	49
El Dorado	10, 26
Fayetteville	*13, 41
Forrest City	22
Fort Smith	5, *16, 22
Harrison	24
Helena	54
Hope	15
Hot Springs	9, 52
Jonesboro	8, 39
Little Rock	*2, 4, 11, 17, 23
Magnolia	28
Malvern	46
Morrilton	43
Newport	28
Paragould	44
Pine Bluff	7, 36
Russellville	19

ARKANSAS—(Continued)

	Channel No.
Searcy	33
Springdale	35
Stuttgart	14

CALIFORNIA

	Channel No.
Alturas	9
Bakersfield	10, 29
Brawley	22
Chico	12
Corona	52
Delano	33
El Centro	16
Eureka	3, 13
Fresno	12, *18, 24, 47, 53
Hanford	21
Los Angeles	2, 4, 5, 7, 9, 11, 13, 22, *28, 34
Madera	30
Merced	34
Modesto	14
Monterey (see Salinas)	
Napa	62
Oakland (see San Francisco)	
Oxnard	32
Petaluma	56
Port Chicago	15
Red Bluff	16
Redding	7
Riverside	40, 46
Sacramento	3, *6, 10, 40, 46
Salinas-Monterey	8, 28
San Bernardino	18, *24, 30
San Benaventura	38
San Diego	8, 10, *15, 21, 27, 33, 39
San Francisco-Oakland	2, 4, 5, 7, *9, 20, 26, 32, 38, 44
San Jose	11, 48, *54, 60
San Luis Obispo	6
Santa Barbara	3, 20, 26
Santa Cruz	16
Santa Maria	44
Santa Paula	16
Santa Rosa	50
Stockton	13, 36, *42
Tulare	27
Ukiah	18
Visalia	43, 49
Watsonville	22
Yreka City	11
Yuba City	52

COLORADO

	Channel No.
Alamosa	19
Boulder	*12, 22
Canon City	36
Colorado Springs	11, 13, *17, 23
Craig	19
Delta	24
Denver	2, 4, *6, 7, 9, 20, 26
Durango	6, 15
Fort Collins	44
Fort Morgan	15
Grand Junction	5, 21
Greeley	50
La Junta	24
Lamar	18
Leadville	14
Longmont	32
Loveland	38
Montrose	10, 18
Pueblo	3, 5, *8, 28, 34
Salida	25
Sterling	25
Trinidad	21
Walsenburg	30

CONNECTICUT

	Channel No.
Bridgeport	43, 49, *71
Hartford	3, 18, *24

CONNECTICUT—(Continued)

	Channel No.
Meriden	65
New Britain	30
New Haven	8, 59
New London	26, 81
Norwalk (see Stamford)	
Norwich	57, *83
Stamford-Norwalk	27
Waterbury	53

DELAWARE

	Channel No.
Dover	40
Wilmington	12, 53, *59

DISTRICT OF COLUMBIA

	Channel No.
Washington	4, 5, 7, 9, 20, *26

FLORIDA

	Channel No.
Belle Glade	25
Bradenton	28
Clearwater	32
Daytona Beach	2
De Land	44
Fort Lauderdale	17, 23
Fort Myers	11
Fort Pierce	19
Gainesville	*5
Jacksonville	4, *7, 12, 30, 36
Key West	14, 20
Lake City	33
Lakeland	16, 22
Lake Wales	14
Leesburg	26
Marianna	17
Miami	*2, 4, 7, 10, 27, 33
Ocala	15
Orlando	6, 9, 18, *24
Palatka	17
Panama City	7, *30, 36
Pensacola	3, 15, *21, 46
Quincy	25
St. Augustine	54
St. Petersburg (see Tampa)	
Sanford	35
Sarasota	34
Tallahassee	*11, 24, 51
Tampa-St. Petersburg	*3, 8, 13, 38
West Palm Beach	.5, 12, *15, 21

GEORGIA

	Channel No.
Albany	10, 25
Americus	31
Athens	*8, 60
Atlanta	2, 5, 11, *30, 36
Augusta	6, 12
Bainbridge	35
Brunswick	28, 34
Cairo	45
Carrollton	33
Cartersville	63
Cedartown	53
Fort Morgan	44
Georgia	4, 28, *34
Cordele	43
Dalton	25
Douglas	32
Dublin	15
Elberton	16
Fitzgerald	23
Fort Valley	18
Gainesville	52
Griffin	39
La Grange	50
Macon	13, *41, 41
Marietta	57
Milledgeville	51
Moultrie	48
Newnan	11
Rome	9, 59
Savannah	3, *9, 11
Savannas	
Statesboro	22

GEORGIA—(Continued)

	Channel No.
Swainsboro	20
Thomasville	6, 27
Tifton	14
Toccoa	35
Valdosta	37
Vidalia	28
Waycross	16

IDAHO

Blackfoot	33
Boise	*4, 7, 9
Burley	15
Caldwell	2
Couer d'Alene	12
Emmett	26
Gooding	23
Idaho Falls	3, 8
Jerome	17
Kellogg	33
Lewiston	33
Moscow	*15
Nampa	8, 12
Payette	14
Pocatello	6, 10
Preston	41
Rexburg	27
Rupert	21
Sandpoint	9
Twin Falls	11, 13
Wallace	27
Welser	20

ILLINOIS

Alton	48
Aurora	16
Bellefontaine	54
Bloomington	15
Cairo	24
Carbondale	34, *61
Centralia	32, 59
Champaign-Urbana	3, *12, 21, 27, 33
Chicago	2, 5, 7, 9, *11, 20, 26, 32, 38, 44
Danville	24
Decatur	17, 23
De Kalb	*67
Dixon	47
Elgin	28
Freeport	23
Galesburg	40
Harrisburg	22
Jacksonville	29
Joliet	48
Kankakee	14
Kewanee	60
La Salle	35
Lincoln	53
Macomb	61
Marion	40
Mattoon	46
Moline (see Davenport, Iowa)	
Mt. Vernon	38
Olney	16
Pekin	49
Pekoria	8, 19, *37, 43
Quincy	10, 21
Rockford	13, 39, *45
Rock Island (see Davenport, Iowa)	
Springfield	2, 20, *26
Streator	65
Urbana (see Champaign)	
Vandalia	28
Waukegan	22

INDIANA

Anderson	61
Angola	15
Bedford	39

INDIANA—(Continued)

	Channel No.
Bloomington	4, *30, 36
Columbus	42
Connersville	38
Elkhart	52
Evansville	7, 50, *56
Fort Wayne	21, *27, 33
Gary	50, *66
Hammond	56
Indianapolis	6, 8, 13, *20, 26, 67
Jasper	19
Kokomo	31
Lafayette	*47, 59
Lebanon	18
Ligonport	51
Madison	25
Marian	29
Michigan City	62
Muncie	49, 55, *71
Richmond	32
Shelbyville	58
South Bend	34, *40, 46
Terre Haute	10, *57, 63
Vincennes	44
Washington	60

IOWA

Algona	37
Ames	5, 25
Atlantic	45
Boone	19
Burlington	32, 38
Carroll	39
Cedar Rapids	2, 9, 20, *26
Centerville	31
Charles City	13
Cherokee	14
Clinton	64
Creston	43
Davenport-Rock Island & Moline, Illinois	4, 6, *30, 36, 42
Decorah	44
Des Moines	8, *11, 13, 17, 23
Dubuque	56, 62
Esterhazy	24
Fairfield	54
Fort Dodge	21
Fort Madison	50
Grinnell	46
Iowa City	*12, 24
Keokuk	44
Knoxville	33
Marshalltown	49
Mason City	3, 35
Muscatine	58
Newton	29
Oelwein	28
Oskaloosa	52
Ottumwa	15
Red Oak	32
Shenandoah	20
Sloux City	4, 9, *30, 36
Spencer	42
Storm Lake	34
Waterloo	7, 16, *22
Webster City	27

KANSAS

Abilene	31
Arkansas City	49
Atchison	60
Chanute	50
Coffeyville	33
Colby	33
Concordia	22
Dodge City	47
Dodge City	6, 23
Dighton	55
Emporia	39
Fort Scott	27
Garden City	9, 11

KANSAS—(Continued)

	Channel No.
Goodland	31
Great Bend	2, 28
Hays	7, 20
Hutchinson	12, 18
Independence	20
Iola	44
Junction City	29
Larned	15
Lawrence	*11, 17
Leavenworth	54
Liberal	14
McPherson	26
Manhattan	*8, 23
Newton	14
Olath	52
Ottawa	21
Parsons	46
Pittsburg	7
Pratt	36
Salina	34
Topeka	13, 42, *48
Wellington	24
Wichita	3, 10, 16, *22
Winfeld	43

KENTUCKY

Ashland	59
Bowling Green	13, 17
Campbellsville	40
Corbin	16
Danville	35
Elizabethtown	23
Frankfort	43
Glasgow	28
Harlan	36
Hardin	19
Hopkinsville	20
Lexington	27
Louisville	3, 11, *15, 21, 41
Madisonville	26
Mayfield	49
Maysville	24
Middlesborough	57, 63
Murray	33
Owensboro	14
Paducah	6, 43
Pikeville	14
Princeton	45
Richmond	60
Somerset	22
Winchester	37

LOUISIANA

Abbeville	42
Alexandria	5, 62
Bastrop	53
Baton Rouge	10, 28, *34, 40
Bogalusa	39
Crowley	21
De Ridder	14
Eunice	64
Franklin	46
Hammond	51
Houma	30
Jackson	18
Jennings	48
Lafayette	38, 67
Lake Charles	7, *19, 25
Minden	30
Monroe	8, 43
Morgan City	36
Natchitoches	17
New Iberia	15
New Orleans	*2, 4, 6, 20, 26, 32, 61
Oakdale	54
Opelousas	58
Ruston	20
Shreveport	3, 12
Thibodaux	24
Winnfield	22

B.C.



MAINE

	Channel No.
Auburn	23
Augusta	10, 29
Bangor	2, 5, *16
Bar Harbor	22
Bath	65
Belfast	41
Bliddeford	59
Calais	7
Dover-Foxcroft	20
Fort Kent	17
Houlton	24
Lewiston	8, 17
Millinocket	14
Orono	*12
Portland	6, 13, *47, 53
Presque Isle	8, 19
Rockland	25
Rumford	55
Van Buren	15
Waterville	35

MARYLAND

Annapolis	14
Baltimore	2, 11, 13, 18, *24, 30
Cambridge	22
Cumberland	17
Frederick	62
Hagerstown	52
Sallisbury	16

MASSACHUSETTS

Barnstable	52
Boston	2, 4, 5, 7, 44, 50, 56
Brockton	62
Fall River	40, 46
Greenfield	42
Holyoke (see Springfield)	
Lawrence	38
Lowell	32
New Bedford	28, 34
North Adams	15
Northampton	36
Pittsfield	64
Springfield-Holyoke	55, 61
Worcester	14, 20

MICHIGAN

Alma	41
Alpena	9, 30
Ann Arbor	20, *26
Bad Axe	46
Battle Creek	58, 64
Benton Harbor	5, 63, *73
Big Rapids	42
Cadillac	39
Calumet	13, 45
Cheboygan	4, 36
Coldwater	24
Detroit	2, 4, 7, 50, *56, 62
East Lansing	60
East Tawas	25
Escanaba	3
Flint	12, 16, *22, 28
Gladstone	40
Grand Rapids	8, *17, 23
Hancock	10
Houghton	19
Iron Mountain	9, 27
Iron River	12
Ironwood	31
Jackson	48
Kalamazoo	3, 36
Lansing	6, 54
Ludington	18
Manistee	15
Manistique	14
Marquette	5, 17
Midland	19

MICHIGAN—(Continued)

	Channel No.
Mount Pleasant	47
Muskegon	29, 35
Petoskey	31
Pontiac	44
Port Huron	34
Rogers City	24
St. Ignace	51, 54
Sault Ste. Marie	8, 10, 28, *34
Traverse City	7, 20, *26
West Branch	21

MINNESOTA

Albert Lea	57
Alexandria	36
Austin	6, 51
Bemidji	24
Braintree	12
Cloquet	44
Crookston	21
Detroit Lakes	18
Duluth-Superior, Wisc.	3, 6, *8, 32, 38
Ely	16
Fairmont	40
Faribault	20
Fergus Falls	16
Grand Rapids	20
Hastings	29
Hibbing	10
International Falls	11
Little Falls	14
Mankato	15
Marshall	22
Minneapolis-St. Paul	*2, 4, 5, 9, 11, 17
Montevideo	23
Mo. Uln	19
Northfield	43
Owatonna	26
Red Wing	45
Rochester	10
St. Cloud	7, 33
St. Paul (see Minneapolis)	
Stillwater	39
Thief River Falls	15
Virginia	26
Wadena	27
Willmar	31
Winona	61
Worthington	32

MISSISSIPPI

Biloxi	13, *44
Brookhaven	50
Canton	37
Clarksdale	16
Columbia	6
Columbus	35
Corinth	28
Greenville	21
Greenwood	27
Grenada	15
Gulfport	56
Hattiesburg	9, 17
Jackson	12, *19, 25, 47
Kosciusko	52
Laurel	33
Louisville	46
McComb	31
Meridian	11, 30, *36
Natchez	29
Pascagoula	22
Picayune	14
Starkeville	34
State College	32
Taylor	38
University	*20
Vicksburg	41
West Point	8, 56
Yazoo City	49

MISSOURI

	Channel No.
Cape Girardeau	12, 18
Carthage	56
Caruthersville	27
Chillicothe	14
Clinton	49
Columbia	8, 16, 22
Farmington	52
Fulton	14
Hannibal	24
Jefferson City	7, 27
Joplin	13, 33
Kansas City	4, 5, 9, *19, 25, 65
Kennett	21
Kirksville	3, 18
Lebanon	23
Marshall	40
Maryville	26
Mexico	45
Moberly	35
Monett	14
Nevada	18
Poplar Bluff	15
Rolla	31
St. Joseph	2, 30, *36
St. Louis	4, 5, *9, 11, 30, 36, 42
Sedalia	6, 28
Sikeston	37
Springfield	3, 10, *26
West Plains	20

MONTANA

Anaconda	2, 8, *11
Billings	2, 8, *9, 22
Bozeman	4, 6, *7, 15
Butte	20
Cut Bank	25
Deer Lodge	25
Dillon	20
Glasgow	16
Glendive	18
Great Falls	3, 5, *23
Hamilton	17
Hardin	4
Havre	9, 11
Helena	10, 12
Kalispell	8
Laurel	14
Lolo	13
Livingston	16
Miles City	3, *6, 10
Missoula	*11, 13, 21
Poison	18
Red Lodge	18
Shelby	14
Sidney	14
Whitefish	16
Wolf Point	20

NEBRASKA

Alliance	13, 21
Beatrice	40
Broken Bow	14
Columbus	49
Fairbury	35
Falls City	38
Fremont	52
Grand Island	11, 21
Hastings	5, 27
Kearney	13, 19
Lexington	23
Lincoln	10, 12, *18, 24
McCook	8, 17
Nebraska City	50
Norfolk	50
North Platte	2, 4
Omaha	3, 6, 7, *16, 22, 28
Scottsbluff	10, 16
York	15



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NEVADA

	Channel No.
Boulder City	4
Carlin	14
Carson City	37
Elko	10
Ely	3, 6
Fallon	29
Goldfield	5
Hawthorne	31
Henderson	12
Las Vegas	8, *10, 13
Lovelock	18
McGill	8
Reno	4, 8, *21, 27
Tonopah	9
Winnemucca	7
Yerington	33

NEW HAMPSHIRE

	Channel No.
Berlin	26
Claremont	37
Concord	27
Durham	*11
Hanover	*21
Keene	45
Laconia	43
Littleton	24
Manchester	9, 48
Nashua	54
Portsmouth	19
Rochester	51

NEW JERSEY

	Channel No.
Andover	*69
Ashbury Park	53
Atlantic City	46, 52
Bridgeton	64
Camden	*80
Freehold	*74
Hammonton	*70
Montclair	*77
Newark	13
New Brunswick	*19, 47
Paterson	37
Trenton	41
Wildwood	48

NEW MEXICO

	Channel No.
Alamogordo	17
Albuquerque	4, *5, 7, 13
Artesia	21
Atkisco-Five Points	18
Belen	24
Carlsbad	6, 23
Clayton	27
Clovis	12, 35
Deming	14
Farmington	17
Gallup	3, *8, 10
Hobbs	46
Hot Springs	19
Las Cruces	22
Las Vegas	14
Lordsburg	23
Los Alamos	20
Lovington	27
Portales	22
Raton	46, 52
Roswell	3, 8, 10
Santa Fe	2, *9, 11
Silver City	*10, 12
Socorro	15
Tucumcari	25

NEW YORK

	Channel No.
Albany-Schenectady-Troy	6, *17, 23, 41
Amsterdam	52
Auburn	37
Batavia	33

NEW YORK—(Continued)

	Channel No.
Binghamton	12, 40, *46
Buffalo (also see Buffalo-Niagara Falls)	17, *23
Buffalo-Niagara Falls	2, 4, 7, 59
Cortland	56
Dunkirk	46
Elmira	18, 24
Glen Falls	39
Gloversville	29
Hornell	50
Ithaca	*14, 20
Jamestown	58
Kingston	66
Malone	20, *66
Massena	14
Middletown	60
New York 2, 4, 5, 7, 9, 11, *25, 31	
Niagara Falls (see Buffalo-Niagara Falls)	
Ogdensburg	24
Olean	54
Oneonta	62
Oswego	31
Plattsburgh	28
Poughkeepsie	21, *83
Rochester	5, 10, 15, *21, 27
Saranac Lake	18
Schenectady (also see Albany)	35
Syracuse	3, 8, *43
Troy (see Albany)	13, 19, *25
Watertown	48

NORTH CAROLINA

	Channel No.
Ahoskie	53
Albemarle	56
Asheville	13, *56, 62
Burlington	63
Chapel Hill	*4
Charlotte	3, 9, 36, *42
Durham	11, *40, 46
Egyptian City	31
Egyptianville	18
Gastonie	48
Goldsboro	2, *51, 57
Greenville	59
Henderson	52
Hendersonville	27
Hickory	30
High Point	15
Jacksonville	56
Knappopolis	59
Kinston	45
Laurinburg	41
Lumberton	21
Mount Airy	55
New Bern	13
Raleigh	5, *22, 28
Roanoke Rapids	30
Rocky Mount	50
Salisbury	53
Sanford	38
Shelby	39
Southern Pines	49
Statesville	64
Washington	7
Wilmington	6, 29, *35
Wilson	56
Winston-Salem	12, 26, *32

NORTH DAKOTA

	Channel No.
Bismarck	5, 12, 18, *24
Bottineau	16
Carrington	26
Devils Lake	8, 14
Dickinson	2, 4, *17
Fargo	6, 13, *34, 40
Grafton	17

NORTH DAKOTA—(Continued)

	Channel No.
Grand Forks	*2, 10
Harvey	22
Jamestown	7, 42
Linton	23
Minot	*6, 10, *33
New Rockford	20
Rugby	38
Valley City	4, 32
Wahpeton	45
Williston	8, 11, *34

OHIO

	Channel No.
Akron	49, *55, 61
Ashland	62
Athens	63
Bellefontaine	26
Cambridge	29
Canion	56
Chillicothe	74
Cincinnati	5, 9, 12, *48, 54
Cleveland	3, 5, 8, 19, *25
Columbus	4, 6, 10, *34
Coshocton	40
Dayton	2, 7, *16
Defiance	43
Findlay	53
Gallipolis	18
Hamilton-Middletown	65
Lancaster	28
Lima	35, 41
Lorain	31
Mansfield	36
Marion	17
Massillon	23
Middletown (see Hamilton)	
Mount Vernon	58
Newark	60
Oxford	*14
Plaqua	44
Portsmouth	30
Sandusky	42
Springfield	46, 52
Steubenville (see Wheeling, W. Va.)	
Tiffin	47
Toledo	11, 13, *30
Warren	21
Youngstown	27, 33, 73
Zanesville	50

OKLAHOMA

	Channel No.
Ada	50
Altus	36
Alva	30
Adarado	58
Ardmore	55
Bartlesville	62
Blackwell	51
Chickasha	64
Claremore	15
Clinton	32
Duncan	39
Durant	27
Euf City	12, 15
El Reno	5, 21, *27
Frederick	44
Guthrie	48
Guthrie	20
Hobart	23
Holdenville	14
Hugo	21
Lewiston	7, *28, 34
McAlester	47
Miami	58
Muskogee	8, *45, 56
Norman	31, *37
Oklahoma City	4, 9, *13, 19
Okmulgee	26
Pauls Valley	51
Ponca City	40



OKLAHOMA—(Continued)

	Channel No.
Pryor Creek	54
Sapulpa	42
Seminole	59
Shawnee	53
Stillwater	29, *69
Tulsa	2, 6, *11, 17, 23
Vinita	28
Woodward	8

OREGON

	Channel No.
Albany	55
Ashland	14
Astoria	39
Baker	37
Bend	15
Burns	16
Corvallis	*7, 49
Eugene	*9, 13, 20, 28
Grants Pass	30
Klamath Falls	2
La Grande	13
Lebanon	43
McMinnville	46
Medford	4, 5
North Bend	16
Pendleton	28
Portland	6, 8, *10, 12, 21
Roseburg	28
Salem	3, *18, 24
Springfield	37
The Dalles	32

PENNSYLVANIA

	Channel No.
Allentown	39, 45
Altoona	10, 19, 25
Bethlehem	51
Bradford	48
Butler	43
Chambersburg	46
Du Bois	31
Easton	57
Emporium	42
Erie	12, 35, *41, 68
Harrisburg	27, 33, 71
Hazleton	63
Johnstown	6, 56
Lancaster	8, 21
Lebanon	15
Lewistown	38
Lock Haven	32
Meadville	37
New Castle	45
Olli City	64
Philadelphia	3, 6, 10, 17, 23, 29, *35
Pittsburgh	2, 11, *13, 16, 47, 53
Reading	55, 61
Scranton	16, 22, 73
Sharon	39
State College	*44
Susbury	65
Uniontown	14
Washington	63
Wilkes-Barre	28, 34
Williamsport	36
York	43, 49

RHODE ISLAND

	Channel No.
Providence	10, 12, 18, *22

SOUTH CAROLINA

	Channel No.
Aiken	54
Anderson	58
Camden	14
Charleston	2, 5, *13
Clemson	*88
Columbia	10, *19, 25, 67
Conway	23
Florence	8

SO. CAROLINA—(Continued)

	Channel No.
Georgetown	27
Greenville	4, 23, *29
Greenwood	21
Lake City	55
Lancaster	31
Laurens	45
Marion	43
Newbern	37
Oconeeburg	44
Rock Hill	61
Spartanburg	17
Sumter	47
Union	85

SOUTH DAKOTA

	Channel No.
Aberdeen	9, 17
Beale Fourche	23
Brookings	*8, 25
Hot Springs	17
Huron	12, 15
Lead	5, 28
Madison	46
Mitchell	5, 20
Moerbridge	27
Pierre	6, 10, *22
Rapid City	7, 15
Sioux Falls	11, 13, 38, *44
Sturgis	20
Vermillion	*2, 41
Watertown	3, 35
Winnert	18
Yankton	17

TENNESSEE

	Channel No.
Athens	14
Bristol, Tenn.-Bristol, Va.	5, 46
Chattanooga	3, 12, 43, 49, *55
Clarksville	53
Cleveland	38
Columbia	39
Cookeville	24
Covington	19
Dyersburg	46
Elizabethton	40
Fayetteville	27
Gatlin	48
Harriman	67
Humboldt	25
Jackson	9, 16
Johnson City	11, 34
Kingsport	22
Knoxville	26
Lawrenceburg	5, 10, *20
Lebanon	50
Maryville	38
Memphis	3, 5, *10, 13, 42, 48
Morrilltown	54
Murfreesboro	18
Nashville	*2, 4, 5, 8, 30, 36
Oak Ridge	32
Paris	51
Pulaski	44
Shelbyville	62
Springfield	42
Tullahoma	65
Union City	55

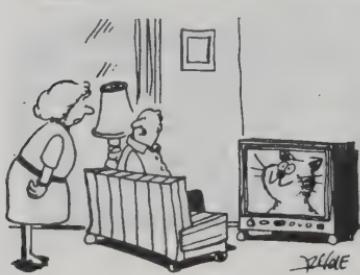
TEXAS

	Channel No.
Abilene	9, 33
Alice	34
Alpine	12
Amarillo	*2, 4, 7, 10
Athens	25
Austin	7, 18, 24, *30
Ballinger	25
Bay City	33
Beaumont-Port Arthur	4, 6, 31, *37

TEXAS—(Continued)

	Channel No.
Beeville	38
Big Spring	4
Bonham	43
Borger	33
Brady	15
Breckenridge	14
Brenham	52
Brownfield	15
Brownsville (also see Brownsville-Harlingen-Weslaco)	36
Brownsville-Harlingen-Weslaco	1
Brownsville (1)	4, 5
Brownwood	19
Bryan	54
Childress	40
Cleburne	57
Coleman	21
College Station	*3, 48
Conroe	20
Corpus Christi	6, 10, *18, 22
Corsicana	47
Crockett	56
Crystal City	28
Cuero	25
Dalhart	16
Dallas	4, 8, *13, 23, 29, 73
Del Rio	16
Denison	20
Denton	*2, 17
Eagle Pass	26
Edinburg	26
El Campo	27
El Paso	4, 7, 9, 13, 20, 26
Falfurrias	53
Fort Stockton	22
Fort Worth	5, 10, 20, *26
Gainesville	11, 35, 41
Galveston	47
Gonzales	64
Greenville	82
Harlingen (also see Brownsville-Harlingen-Weslaco)	23
Hebronville	58
Henderson	42
Hereford	19
Hillsboro	63
Houston	2, 8, 13, 23, 29
Huntsville	15
Jacksonville	36
Jasper	49
Kermit	14
Kosciusko	59
Kingsville	40
Lameca	28
Lampasas	40
Laredo	8, 13, *15
Leveland	38
Lubbock	32
Lufkin	5, 11, 13, *20
McAllen	9, 46
McKinney	20
Marfa	19
Marshall	18
Mercedes	32
Mexia	50
Midland	2, 18
Mineral Wells	38
Mission	14
Monahans	9
Mount Pleasant	35
Nacogdoches	40
New Braunfels	62
Odessa	7, 24
Orange	43

(1) These assignments may be utilized in any community lying within the area of the triangle formed by Brownsville, Harlingen and Weslaco.



"Martha! Would you get the darn cat out of the satellite dish?"

TEXAS—(Continued)

Channel No.

Pampa	17
Paris	33
Pearl	31
Pecos	16
Perryton	22
Plainview	29
Port Arthur (see Beaumont)	
Quanah	42
Raymondville	42
Rosenberg	17
San Angelo	6, 8, 17, *23
San Antonio	4, 5, *9, 12, 35, 41
San Benito	48
San Marcos	53
Seguin	14
Seymour	24
Sherman	46
Snyder	32
Stephenville	32
Sulphur Springs	41
Sweetwater	22
Taylor	58
Texico	18, 22
Terrell	53
Texarkana	6, *18, 24
Tyler	7, 19
Ulvalde	20
Vernon	18
Victoria	19
Waco	11, *28, 34
Waxahachie	45
Weatherford	51
Weslaco (see Brownsville-Harlingen-Weslaco)	
Wichita Falls	3, 6, *16, 22

UTAH

Brigham	36
Cedar City	5
Logan	12, 30, *46
Ogden	9, *18, 24
Price	6
Provo	11, 22, *28
Richfield	13
St. George	18
Salt Lake City	2, 4, 5, *7, 20, 26
Tooele	44
Vernal	3

VERMONT

Bennington	33
Brattleboro	58
Burlington	*16, 22
Montpelier	3, 40
Newport	46
Rutland	49
St. Albans	34
St. Johnsbury	30

VIRGINIA

Blacksburg	*60
Bristol (see Bristol, Tenn.)	
Charlottesville	45, 64
Covington	44
Danville	24
Emporia	25
Farmville	19
Fredericksburg	47
Front Royal	39
Harrisonburg	3, 34
Lexington	54
Lynchburg	13, 16
Marion	50
Martinsville	35
Newport News (see Norfolk-Portsmouth-Newport News)	
Norfolk-Portsmouth (also see Norfolk-Portsmouth-Newport News)	
port News	27

VIRGINIA—(Continued)

Channel No.

Norfolk-Portsmouth	Newport News (also see Norfolk-Portsmouth)	3, 10, 15, *21, 33
Norton	52	
Petersburg	8, 41	
Portsmouth (see Norfolk-Portsmouth and also see Norfolk-Portsmouth-Newport News)		
Pulaski	37	
Richmond	6, 12, *23, 29	
Roanoke	7, 10, 27, *33	
South Boston	14	
Staunton	36	
Waynesboro	42	
Williamsburg	17	
Winchester	28	

WASHINGTON

Aberdeen	58
Anacortes	34
Bellingham	12, 18, 24
Bremerton	44, 50
Centralia	17
Ellensburg	49, *65
Ephrata	43
Everett	22, 28
Grand Coulee	37
Hoquiam	52
Kelso	39
Kennewick (also see Kennewick-Richland-Pasco)	25
Kennewick-Richland-Pasco	*41
Longview	33
Olympia	60
Omak-Okanogan	*35
Okanogan (see Omak)	
Pasco (also see Kennewick-Richland-Pasco)	19
Richland-Pasco	16
Port Angeles	16
Pullman	*10, 24
Richland (also see Kennewick-Richland-Pasco)	31
Seattle	4, 5, 7, *6, 20, 26
Spokane	2, 4, 6, 7
Tacoma	11, 13, *50, 62
Walla Walla	5, 8, 22
Wenatchee	45, 55
Yakima	23, 29, *47

WEST VIRGINIA

Beckley	6, 21
Bluefield	41
Charleston	8, *43, 49
Clarksburg	12, 22
Elkins	40
Fairmont	35
Hinton	31
Huntington	3, 13, *53
Logan	23
Martinsburg	58
Morgantown	24
Parkersburg	15
Welch	25
Weston	32
Wheeling (also see Wheeling-Steubenville, Ohio)	*57
Wheeling-Steubenville, Ohio	57
Williamson	7, 9, 51

WISCONSIN

Adams	*58
Appleton	42
Ashland	15
Beaver Dam	37
Beloit	57
Chilton	24
Eau Claire	13, *19, 25

WISCONSIN—(Continued)

Channel No.

Fond du Lac	54
Green Bay	2, 6
Janesville	63
Kenosha	61
La Crosse	8, *32, 38
Madison	3, *21, 27, 33
Manitowoc	65
Marinette	11, 32, *38
Milwaukee	4, *10, 12, 19, 25, 31
Oshkosh	48
Park Falls	*18
Portage	17
Prairie du Chien	34
Racine	49, 55
Rhinelander	22
Rice Lake	21
Richland Center	15, *66
Sheboygan	59
Shell Lake	*30
Sparta	50
Steven Point	20, 26
Sturgeon Bay	44
Superior (see Duluth, Minn.)	
Wausau	7, 16, *46
Wisconsin Rapids	14

WYOMING

Buffalo	29
Casper	2, 6
Cheyenne	3, 5
Cody	24
Douglas	14
Evanston	14
Gillette	31
Green River	16
Greybull	40
Lander	17
Laramie	*8, 18
Lovell	36
Lusk	19
Newcastle	28
Powell	30
Rawlins	11
Riverton	10
Roch Springs	13
Sheridan	9, 12
Thermopolis	15
Torrington	27
Wheatland	24
Worland	34

U. S. TERRITORIES AND POSSESSIONS ALASKA

Anchorage	2, *7, 11, 13
Fairbanks	2, 4, 7, *9, 11, 13
Juneau	*3, 8, 10
Ketchikan	2, 4, *9
Seward	4, 9
Sitka	13

HAWAIIAN ISLANDS

Lihue, Kauai	3, *8, 10, 12
Honolulu, Oahu	2, 4, *7, 9, 11, 13
Wailuku, Maui	*3, 8, *10, 12
Hilo, Hawaii	2, 4, 7, 9, 11, 13

PUERTO RICO

Arecibo	13
Caguas	11
Mayaguez	3, 5
Ponce	7, 9
San Juan	2, 4, *6

VIRGIN ISLANDS

Christiansstad	8
Charlotte Amalie	10, 12



PHOTO-NEWS

JANUARY
1994

MAILING ADDRESS:
PHOTO-NEWS
12284 Nice Road
Akron New York 14001-9529

Jeff Kadet-Macomb Illinois. Equipment: ICOM R-7000 with video adapter; Zenith N1310 13" color set. Screened Channel Master 7' dish and RDX Labs UA-900 UHF preamp, feed is .5" aluminum hardline; antenna up 85 feet. For VHF, Channel Master 1110 Quantum with Winegard PA-1975 preamp, feed is .5" aluminum hardline, antenna up 80 feet. Winegard 5 element lo-band yagi (vertically polarized) with RG-11 feed, antenna up 18 feet. Correction Nov. 1993 Photo-News page 9: K67BA Iron Mountain, MI.



KVIO-6
Carlsbad New Mexico
916 mile E-skip seen July 1, 1993
at 1821 CST
Repeats KOAT-7 Albuquerque NM



WGKU-45
Vanderbilt-Gaylord Michigan
475 mile tropo seen July 6, 1993
at 0600 CST



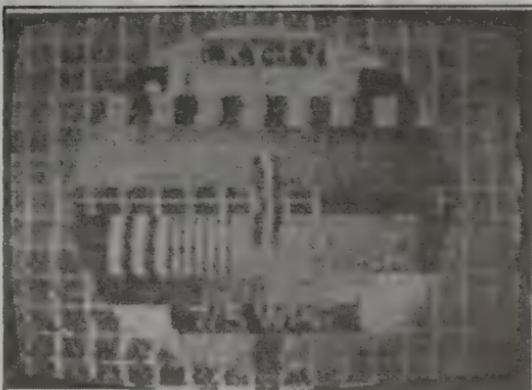
W48BD
Corbin Kentucky
410 mile tropo seen July 20, 1993
at 0507 CST



W40AK
Muskegon Michigan
301 mile tropo seen August 27, 1993
at 0230 CST

More from Jeff next time.

Tom Bryant -Nashville Tennessee (DX from Napoleon North Dakota) Equipment: ancient TV set, local cable system antennas on city water tower. "Enclosed pix is of CKY-tv (7) Winnipeg taken on the ancient set in room #1 of the Fettig Motel in Napoleon, ND (my home town). I was there for a class reunion and found this mixing with KQCD-tv (7) (Dickinson, ND ed.) at 2 AM August 5. Signal source was the local cable system which has antennas on the city water tank for the locals ..KJRR (7) (Jamestown ND ed.) was off ...and this stuff showed up." "(Note...the "5" on the CKY-tv tp is their Winnipeg cable channel.)" Thanks for the interesting DX photo Tom.



Joseph Fela - South Plainfield New Jersey
Equipment: G.E. monitor, Antennacraft P-7
dish on rotor at 35 feet , Winegard PA-4975
preamp.

CKY-7
Winnipeg Manitoba
263 mile tropo
seen August 5, 1993
at 0200 CST



W44AD
Onancock Virginia
210 mile tropo seen August 29, 1993
at 0100 EST
(translator of WTKR-3 Norfolk VA)

W25AA
Onancock Virginia
210 mile tropo seen August 29, 1993
at 0112 EST
(translating WPDE-15 Florence SC)

W25AA Onancock VA is a translator of WHRO-15 Norfolk VA but due to the effects of hurricane Emily, W25AA was picking up WPDE-15 Florence South Carolina at a distance of 331 miles after WHRO signed off. Thanks for the DX photos Joe.

It's a new year and time for an old reminder. When you submit your photos be sure to include the following information about your DX photo: calls, channel number, city of license, state/province or country, distance in miles, mode of propagation, date of reception, time of reception (optional). Some other tidbits you can add about your photos are: what the co-channel interference (CCI) is from, local or semi-local stations your DX catch had to over ride (include distance).

Till next time **DAVE**

EASTERN TV-DX

Stephen West
26 Dougherty Blvd. G-8
Glen Mills, PA 19342

(215) 358-2648

January 1994

Deadline: January 5

November E-skip is the big event of the month. The best day was November 20th. Some DXers were able to squeeze some tropo from the troposphere. A new record for the shortest report is featured this month. I don't know if anyone can reclaim the record, how do you have less than one station to report?

Bill Nienajadly, P.O. Box 2999, Clifton, NJ 07015-2999

November 20th, Es 2200 KYTV-3 MO (MUF CH. 4)

Jeff Falconer, Box 63, Clinton, ON N0M 1L0 Canada

August 1993

10 Es 1252 WBRZ-2 LA (1058)
1259 KATC-2 LA (1091)
1300 WLBT-3 MS (913)
1800 WTVJ-4 FL (1236)

August 1993

10 Es 1803 WEDU-3 FL (1084)
1806 WPBT-2 FL (1171)
28 gw 2320 CFMT-69 ON // CFMT-47

Note: CFMT-69 & CHWI-16 testing. 2 tr 1903 CHWI-16 ON (118)

Rick Shaftan, 39 Old Middletown Road, Rockaway, NJ 07866

(201) 586-3563 or DX Beeper (201) 661-5662, call don't write, busy.

Equipment: VHF; Channel Master 3517, RS outdoor amp w/20db gain. UHF; Channel Master 7' dish, Winegard PA8275 mast mount amp, RDX Labs balun, RG6 coax, Blonder Tongue mast mount amp used as an additional booster, providing 20db gain and 4.5db noise, with a total gain of 50db w/5.5db noise on UHF. Fortunately, NYC locals that cause overload are in a direction with no DX.

November 1993

24 tr 0833 WNVT-53 VA w/CT cci
0847 W36BJ Atlantic City, NJ

November 1993

24 tr 1000 WFXI-8 NC
Es seen on 11/21,22 & 25, no ID

Dave Nieman - Ho Sta Geh Road - Rock City New York

Equipment: RCA 19" (model AER 191 W) b&w TV, Channel Master 3617B VHF antenna at 15 feet AGL (2405 feet ASL), on a Radio Shack rotor, Belden RG-8 coax feed into a Winegard FT-7600 FM trap (set to 95.7MHz) and Winegard DA-205 distribution amp. Antennacraft P-7 (7' dish) UHF antenna into a DX Tele Labs EU-4S preamp at 25 feet AGL (2415 feet ASL) on a Alliance U-100 rotor, Jerrold CAC-11 coax feed.

New loggings are underlined. New call (KKKK).

October 1993

29 Tr 0310 WWNY 7 NY
WKBW Buffalo NY off

November 1993

19229 TrS 1100 WLIG 55 NY 297



I started using my circa 1980 19" RCA (model AER 191 W) b&w TV from the Akron DX shack. I'm now seeing some fair troposcatter on UHF out to around 300 miles. I tried using the Harvard receiver/monitor with the Teknika TV tuner at home; it's not even a good monitor. Wish I would have bought two of the RCAs. Dave

Dave Nieman - 12284 Nice Road - Akron New York 14001-9529

Equipment: RCA 19" b&w TV with Teknika 6510 tuner, Channel Master 3617B VHF antenna on a CDE rotor at 23 feet AGL (813 feet ASL). Channel Master 4251 UHF antenna (7' dish) into a Blonder-Tongue CMA-Ub preamp on a crank up tower at 33 feet AGL (823 feet ASL) with Alliance HD-73 rotor. Using Jerrold CAC-11 coax for both antenna.

New loggings are underlined. New call (KKKK).

October 1993

24 Es 1900 KSWK 3 KS 123512 TrS 1345 WTMW 14 VA
1930 KTBS 3 LA 1097 HSC!Spree

November 1993

November 1993

288 20 Es 2000 KQTV 2 MO 870
over local WGRZ Buffalo NY

LPTV; W39BC Buffalo has been off the air for a couple months. I hope for good! November turkey day was NOT a repeat of turkey day 1986 (no tropo). Maybe Decembers E-skip peak will be a good one this year. Dave

Thomas Yingling, 221 Pinewood Road, Baltimore, MD 21222-2345

August 1993

31 tr 2200 Raleigh, Boston U's

September 1993

1 tr 0001 WUNJ-39 NC (366)
0544 WCCB-18 NC (361)
WPDE-15 SC (372)
0600 WHLL-27 MA (328)



VIRGINIA'S LEADING NEWS CHANNEL...ON YOUR SIDE

From Nags Head, NCOctober 1993

1 tr 0100 WHNS-21 NC (397)

WJPR-21 VA (240)

WOLO-25 SC (326)

WVFT-27 VA (264)

W32BA VA (TBN)

Lynchburg

WPBY-33 WV (401)

WGTT-48 NC (233)

0300 WMSY-52 VA (333)

Goldsboro W59BA NC (TBN)

7 tr 2145 WFXT-25 MA (347)

WEBA-14 SC (375)

WSBK-38 MA (347)

WUNE-17 NC (345)

WFMP-62 MA (355)

WLTX-19 SC (314)

QTH W44AI NY (180)

W20AT NC "WVT-TV"

30 roof antennas came down for

non-ID, Roanoke Rapids new roofing, more antennas are

planned, the farm will grow!

WCES-20 GA (418)

Comments: Hurricane Emily DX from Baltimore was with limited antennas up, just a 2 foot corner reflector and RDX amp. I was down to the Outer Banks of NC while visiting the Virginia Beach ham-fest on October 1st.

Icom IC-R7000 Communications Receiver Icom AH-7000 Discane Sony KV-8AD11 8-inch color tv set

Icom IC-R100 Communications Receiver Icom IC-R71A for swl Sony KV-1214 12-inch color tv set

Jeff Wolf, 1131 University Blvd. W., Apt. 701, Silver Spring, MD 20902
20902

November 1993

20 Es 1843 UNID-2 & 3

21 Es 0117 UNID-2

24 tr 0223 WUNI-27 MA (t)

November 1993

26 Es 1821 CUBA-2 (t)

tr 2218 WHMC-23 (t)

Raleigh NC U's

Stephen West, 26 Dougherty Blvd. G-8, Glen Mills, PA 19342-1140

From Nags Head, NCNovember 1993

13 tr 0800 WPBH-30 GA (500)

to WGNX-44 GA (500)

to WFMZ-69 GA (500)

1030 WVEU-69 GA (500)

15 tr 0330 WLTX-19 SC (300)

WACH-57 SC (300)

November 1993

15 tr 0345 WAGT-26 GA (400)

WFXG-54 GA (400)

From Glen Mills, PA

20 Es 1900 WWL-4 LA (1086)

1930 KTIV-4 IA (1100)

2000 KJRH-2 OK (1143)



Comments: 11/13 Atlanta was in steady but on the weak side. The 11/15 opening was snow free. Florida was probably in but I had a 6 1/2 hour drive from NC to PA the next day so I didn't check the ICOM. WFMZ-69 in Allentown, PA is much stronger now. I noticed the Ch. 42 in the Vineland, NJ area with spanish cartoons one morning. The new Ch. 40 in Wilmington, DE is transmitting from Boothwyn, PA with their TBN nonsense. They are about 4 miles away so they are the strongest local now. WTGI-61 interference is worse now due to a mixing of their signals. Why doesn't TBN have a toll free number on the screen? They seem to have plenty of money to build stations, why do people have to make a long distance call to them. I would like to complain to them for free. WCMC-40 tears up the frequency but it's better to have TBN on an already un-DXable channel.

Richard Contone, 162-07 87th Street, Jamaica, N.Y. 11414

Comments: I am using the same amplifier that brought good loggings all summer. (What is the brand name and model number? sw) The amplifier is at the focal point of my homemade parabolic antenna. (How many feet off the ground is the antenna mounted? sw) I am sending for QSLs and I have received many interesting responses.

(continued on page 22)

WESTERN TV-DX

Fred McCormack
PO Box 65666
St. Paul MN 55165-0666

(612) 735-6860

Deadline: 02-10-94
Cut-off: 11-01-93

January 1994

The TV-DX highlights in November were a nice tropo opening on the 18th noted by Delaney, Eckberg, and yours truly (finally!) and E skip on the 20th noted by Kruszka to New York and by Delaney to New Brunswick/Maine/Massachusetts.

CORRECTION - Robert Kramer advises that he erroneously reported W48AV with TCT in his report appearing in the October 1993 column. W48AV is on The Family Network.

New	New Mode	Tent. - t	Unidentified - unid	S/On - +	S/off - =
ID Color Bars - @		Unid Color Bars - %		Misc. Test Patterns - &	
Parallel Programming - //				MTS Stereo - \$	

Robert Delaney, RR#4 Box 385, Mt. Vernon IL 62864 (KA9UVY) (618-242-7256) CST

Equipment:

1990 Zenith 13" color SS 1311W, Emerson 885 VCR. UHF ant: 7' parabolic CM 4251 @ 110' agl, UA 900 preamp, RG-11 coax. VHF ant: rotatable vertical dipole @ 25' agl for E skip, CM 3608 @ 55' agl. Camera: Pentax K 1000 with Kodak Gold Plus 200.

November 1993

4 tr 0313 W67ALt 67 OH (Eastlake WVIZ-25) (See Note # 1)	4 tr 0440 WWSYM 47 MI 365 0446 WEAO 49 OH 430 0449 WNEO 45 OH 460 0532 WPBY 33 WV 365	18 tr 0530 +KAWB 22 MN 625 0532 WXOW 19 WI 400 0540 WLEF 36 WI 530 0547 WHLA 31 WI 400
0315 &WVIZ 25 OH 435	WOSU 34 OH 345	0550 WKBN 32 IA 420
0316 WBNX 55 OH 435	15 tr 1825 KHOG 29 AR 325	0551 WMSN 47 WI 330
0318 WMFD 68 OH 375	1858 KHBS 40 AR 390	0553 WTIN 21 IA 425
WLIO 35 OH 305	2116 KOBC 34 OK 510	0602 WYIN 24 IA 405
0328 WOIO 19 OH 435	17 tr 1758 KYFC 50 MO 305	0616 KDUB 40 IA 305
0329 WXON 20 MI 410	1759 KTKA 49 KS 380	0622 KSAX 42 MN 600
0330 WKBD 50 MI 410	1801 KSMO 62 MO 305	20 Es 1844 CHSJ 4 NB 1260
0347 W50BEt 50 OH (Mansfield WMFD-68)	1921 KMCI 38 KS 340	1853 WLBZ 2 ME 1130
(See Note # 2)	18 tr 0414 KITN 29 MN 515 0424 WGUV 35 MI 355	1900 WGBH 2 MA 970
0352 WHIZ 18 OH 385	0430 WOTV 41 MI 345	21 tr 0340 W53AV 53 IN 180 (Indianapolis LPTV)
0400 WFMJ 21 OH 480	0431. WWSYM 47 MI 365	(See Note # 3)
0422 WUAB 43 OH 435	0500 KLGT 23 MN 515	
0431 WAKC 23 OH 435	0527 KXLI 41 MN 545	

Note # 1 - With WVIZ-25 test slide.

Note # 2 - With WMFD ID in right bottom corner of screen.

Note # 3 - With full slide showing "Hoosier TV 53", Indianapolis, bogus call "WAV" and full call W53AV.

Not much to report from here in November. The highlights would have to be the Minnesota opening of the 18th and the surprise E skip opening the evening of the 20th with CHSJ-4 photographed for a new Canadian province. 73 Es Good DX de Bob.

(Bob, I appreciate your high standards in logging, but I would certainly encourage you to regard W67AL and W50BE as positives. I do. fm)

Jeff Kruszka, 7706-M N Jefferson Place Cir, Baton Rouge LA 70809 (504-923-0196) CST

Equipment: See December 1993 Western TV-DX

<u>November 1993</u>	9 tr 2330 WLTZ 38 GA 390	20 Es 1824 WNBC 4 NY 1150
2 tr 2313 WBMG 42 AL 335	10 tr 0844 WPAN 53 FL 260	1858 WSTM 3 NY 1145
2331 WTTO 21 AL 335	("Valuevision")	23 tr 2347 WHOA 32 AL 315
9 tr 2243 WATL 36 GA FOX	17 tr 2040 WSFA 12 AL 315	24 tr 2233 WSFA 12 AL 315
2325 WOOV 20 AL 315	19 tr 0731 KNWS 51 TX 255	

Jeff Kruszka (continued)

Note - KNNS-51. New station on the air! They ID as "Katy-Houston" (as if Houston needs another station), although their transmitter is in Missouri City. They show news and information, both local and CNN feed.

Nice to see some off-season skip. It was a surprisingly poor month for tropo - there are usually one or two bang up days of gulf tropo, but not this year, I guess. 73's, Jeff

William Eckberg, 1032 Sterling Road, Dixon IL 61021

CST

Equipment:

1966 Zenith b&w receiver ch 14N22, modified UHF tuner. Rohn tower - Channel Master 1110 at 41'. Rohn crankup tower - Channel Master 7 foot dish at 52'. RDX Labs UA700 and UA900 preamplifier respectively. Jerrold CAC11 cable. Yaseu G-400RC rotor.

November 1993

16 tr 0130	KHOG	29 AR	463	16 tr 0405	WMTU	16 TN	419	18 tr 0220	KTBO	14 OK	612
0140	KHBS	40 AR	513	17 tr 2335	KSAX	42 MN	404	0543	KOZJ	26 MO	413
0200	WXMT	30 TN	408	2345	KXNE	19 NE	402	28 ms 0618	KPRY	4 SD	566
0400	WZTV	17 TN	408	2358	KHNE	29 NE	464	30 tr 1750	KSAX	42 MN	404
				18 tr 0035	KAWB	22 MN	391				

The new KPRY-4 logging was unusual. I was asleep with the TV on channel 4. I was awakened by a loud tone. On the screen was KSFY. Pierre 4 is a satellite of Sioux Falls KSFY-13.

Robert Kramer, Box 59681, Chicago IL 60659 (N9MBK) (312-262-6299)

CDT

Equipment:

R-7100, 1978 RCA 19" black & white, Sony 1923 19" color, Mitsubishi HS-422R Stereo VCR, Mitsubishi HS-U57 Stereo VCR, Channel Master 4257 UHF Quantum at 62' with Winegard AP-4700 hi-input preamp, Radio Shack attenuator, Channel Master 1110 Quantum at 55' with Winegard AP-3700 hi-input VHF preamp, Radio Shack attenuator, both fed with RG-11 coax, Alliance HD-73 rotor, Ricoh XRM camera loaded with Kodak T-Max 400 B&W film.

September 1993

16 tr 1749	KSPR	33 MO	443	17 tr 0125	KLAX	31 LA	779	23 tr 2233	KXLI	41 MN	413
1756	KHOG	29 AR	533	0143	KTUL	8 OK	597	2236	KITN	29 MN	351
1807	KHBS	40 AR	584	0145	KOLR	10 MO	443	2332	KYIN	24 IA	296
1832	KPOM	24 AR	584	0200	KTEN	10 OK	694	2336	KMEG	14 IA	451
1838	KOZK	21 MO	443	1905	KSPR	33 MO	443	2340	KTIN	21 IA	336
1848	KSHB	41 MO	419	1930	KAIT	8 AR	450	24 tr 1845	KCCI	8 IA	309
1902	WMPN	29 MS	677	1949	KPTM	42 NE	430	1944	KDSM	17 IA	309
1913	KARD	14 LA	693	1950	KSHB	41 MO	419	2203	KXLI	41 MN	413
1942	KTKA	49 KS	469	1955	KSNT	27 KS	469	2358	K14AF	14 IA	227
1950	KNOE	8 LA	692	1958	WOWT	6 NE	430	(Decorah	KYIN-24)		
1958	KLTS	24 LA	731	2100	KTUL	8 OK	597	25 tr 0008	KMEG	14 IA	451
1959	KLPB	24 LA	843	2105	KTFQ	41 OK	597	0800	WOAC	67 OH	340
2025	KFXK	51 TX	756	2108	KWHB	47 OK	597				
				2154	KOLR	10 MO	443				
2202	KODE	12 MO	497	2222	KODE	12 MO	497	October 1993			
2216	KMSS	33 LA	731	2232	KSNT	16 MO	497	6 tr 2255	KOZK	21 MO	443
2218	KXLN	45 TX	971	18 tr 0125	KHBS	40 AR	584				
2232	WXXV	25 MS	802	0135	KHOG	29 AR	533	2305	KSHB	41 MO	419
2357	KETH	14 TX	942	0228	KTXA	21 TX	825	2320	WOAC	67 OH	340
17 tr 0007	KHTV	39 TX	942	0400	WTTO	21 AL	588	2343	KMZ	17 MO	323
0032	KHSX	49 TX	812	0408	WHNT	19 AL	510	7 tr 0004	KARD	14 LA	693
0102	KTXA	21 TX	825	0414	WZTV	17 TN	404		KOLR	10 MO	443
0114	KDAF	33 TX	804	0420	WOOV	20 AL	664	0008	KSNF	16 MO	497
0119	KTXH	20 TX	942	0439	WAAY	31 AL	510	0503	WOIO	19 OH	307

The tropo on 9/16-18 was the best opening I never saw. I appeared to be on the eastern fringe of the opening. I mostly just got audio on the R-7100. Niel Kazaross just 10 miles or so from here, but further west, was getting color pictures. It still was a fantastic opening, my first ever tropo to TX, and my mileage records were shattered. I

Robert Kramer (continued) started back to work in July, so not as much DXing done. I am changing jobs again. I am going back to my old employer, the State of Illinois. It is real easy to get days off when cx are up. 73 de RK.

Keith Smith, 3924 Sims Ave, St. Ann MO 63074-1926 (314-429-0751)

CST

Equipment:

Zenith 19" colour TV with digital tuning. Radio Shack VHF/UHF/FM antenna with Archer rotor.

<u>November 1993</u>	24 tr 1754	<u>WTHIT 10 IN</u>	28 tr 1202	KTVO	3 MO	155
22 tr 2057	WAND 17 IL 107	(See Note # 2)	29 tr 1235	WUSI	16 IL	122
2127	WICS 20 IL 83	WRSP 55 IL 83	30 tr 1125	KMOS	6 MO	155
2153	WILL 12 IL 145	0121 WIOS 20 IL 83	(See Note # 4)			
23 tr 2252	KFTV 3 MO 193	28 tr 1202 KOLR 10 MO 193				
2328	WPSDT 6 KY	unid channel 12				
(See Note # 1)		(See Note # 3)				

Note # 1 - Coverage of a basketball game. "Kentucky" on banner. Could this be Kentucky State? WSIL-3 in during same period - almost a grade B signal!

Note # 2 - Carrying "OBS News with Connie Chung". Logged in again at 1800 with "Wheel of Fortune". (Does that check right? Terre Haute is on the eastern Central Time Zone border, so I don't know. Most CT VHFs air news at 1800.) WSIL-8 and KFVS-12 both in colour with clear grade B pix. KRCG-13 in with a colour picture - first time in awhile. (It's gotta be the snow!)

Note # 3 - Could be KIIN or WILL.

Note # 4 - Extremely rare. This PBS does not adequately serve the Columbia - Jefferson City, Missouri market and it's the only PBS within 75 miles of that market!

On the 28th, I logged a unid on 64 - possibly East St. Louis area (very snowy) - carrying Valuevision. Any calls for this one? (Call letters are K64DT. It is licensed to St. Louis with transmitter at One Mercantile Center. fm)

(Welcome to Western TV-DX. We hope to hear from you regularly. fm)

Fred McCormack, 2384 Teakwood Dr, Maplewood MN 55119-5520

CST

Equipment:

General Electric 9" color (Model 09GP103). VHF: Rabbit ears. UHF: Archer Radio-Shack 4 Bay (indoors at set).

<u>November 1993</u>	18 tr 0043 =KTKA 49 KS 435	18 tr 0300 =KYOU 15 IA 275
18 tr 0000	0100 WCIU 26 IL 340	0424 @KCPT 19 MO 410
0005 WKOW	0106 KSNF 16 MO 550	0752 WICS 20 IL 395
0010 KSPR	0112 KLJB 18(IL) 280	0753 KLJB 18(IL) 280
0031 =KYNE	0127 WGBA 26 WI 250	0945 KSPR 33 MO 530
0037 KSNT	0300 KDEB 27 MO 535	

Eastern TV-DX (continued from page 19)

January 1994

William R. Hepburn 35 Lockwood Rd. Brampton ON L6Y 4T7 CANADA

Recvr: JVC HR-D630U VCR & Icom IC-R100
Ant: attic VHF dipoles & 2nd floor UHF 4-bay

<u>OCTOBER 1993 (EDT)</u>				<u>NOVEMBER 1993 (EST)</u>			
07 TR 2223	<u>WJAC-6</u> PA 231	16 TR 2233	WGBA-26 WI 411	20 ES 1907	WWL-4 LA 1105		
<i>Johnstown-Altoona</i>		20 ES 1847	WDAF-4 MO T	1924	WBRZ-2 LA T		
2230 WGPT-36 MD 295		1848 KYTV-3 MO T		1925 MUF 6			
<i>Oakland</i>		1850 KTIV-2 MO 655		1930 KETS-2 AR T			
2304 WBRA-15 VA 447		1856 <u>KLINE-3</u> NE 1033		1953 KTIV-4 IA 832			
<i>Roanoke</i>		<i>Lexington</i>		2129 <u>WLBT-3</u> MS 978			
08 TR 0501	<u>WNEM-5</u> MI 204	1859 KTVO-3 MO T		<i>Jackson</i>			
<i>Bay Cy-Saginw-Fnt</i>		1900 KOET-3 OK 1014		2146 KSNC-2 KS 1051			
24 ES 1951	MUF 4	<i>Eufaula</i>					
30 ES 1145	MUF 3						

Notes: Oct 7 Tr - WGPT-36 MD IDed as 'MPT'. S/off @ 0105.
- WBRA-15 VA makes Virginia state # 31.

GREG CONIGLIO

5100 GLENWOOD DRIVE

WILLIAMSVILLE, NEW YORK 14221

e-mail: coniglio@acsu.buffalo.edu

or also: V131KKDN@UBVMS.BITNET

NORTHERN FM-DX

For DXers in: MA,NH,VT,CT,MA,RI,NY,PA,NJ,OH,MN,IL,WI,MN,IA,NE,SD,ND,MT,WY,ID,WA,OR,AK,Canada
JANUARY 1994 — DEADLINE: The 5th — LOG CUTOFF: 3 months from postmark

DAVE NIEMAN - HO 8 STA GEH ROAD - ROCK CITY NEW YORK

Equipment: Carver TX-11 tuner IF filter modified. Channel Master model 4408 (Stereo Probe 9) at 25 feet AGL (2415 feet ASL). Winegard FT-7800 variable FM trap for 95.7MHz. Belden RG-6 coax and Radio Shack rotor.

New loggings are underlined. New call (K1KKK). New propagation mode WWWW.

OCTOBER 1993 DX

29 tropo

1349 WFQO 94.7 PA Erie, call, o\$ (Erie's all oldies station...) "FROGGY-94.7"

31 troposcatter

0958 W211AK 90.1 PA Kane, g\$ (WMBI 90.1 Chicago IL)

NOVEMBER 1993 DX

28 tropo

1309 WKAB 103.5 PA Berwick, call, rm\$

1402 WQEQ 103.1 PA Freeland, area ads, o\$

NOVEMBER 28 Info continued

1520 (WQBR) 99.9 PA Avis, call+ "The Bear"

1800 CJBC1 94.3 ON Belleville, call, t mono FF

ex 95.5. 170

1900 CJOJ 95.5 ON Belleville, ID, r\$ 158

28 Meteosat

0800 WXWS 90.1 GA Waycross, \$ (Peach State Public Radio) 778

130 1053 (CIMJ) 106.1 ON Guelph, call, r\$ ex CKLA 136

In my November 1993 Northern FM DX report; I mentioned hearing a station on 90.1 possible a WIOSU Kent Ohio satellite. Well it turned out being W211AL 90.1 Ashtabula OH a translator of WYSU 88.5 Youngstown OH. On October 31 I thought I relogged WMFI 90.1 Chicago; this one turned out being a translator for then on the same frequency. The mountains along the signals path must make it scatter in and out. It gives you the impression that your hearing a more distant station. I had to do some fine tuning of the FM trap to hear CJOJ 95.5 Belleville ON next to local WPIG 95.7. CJOJ and WPIG are both on the same antenna heading. Dave

DAVE NIEMAN - 12284 NICE ROAD - AKRON NEW YORK 14001-9529

Equipment: Carver TX-11a tuner, Channel Master model 4408 (Stereo Probe 9) at 36 feet AGL on a crank up tower, (826 feet ASL). Alliance HD-73 rotor and Belden RG-6 coax.

New loggings are underlined. New call (K1KKK). New propagation mode WWWW.

OCTOBER 1993 DX

9 troposcatter

1800 WVOS 95.9 NY Liberty, call, rm\$

25 tropo&scatter

0800 CJBC1 94.3 ON Belleville, ID, tm Mono ex 95.1

1359 CBOC 95.5 ON Cornwall, tm Mono (CBC Eastern Ontario)

NOVEMBER 1993 DX

15 tropo

0627 CJOJ 95.5 ON Belleville, ID, r\$ 113

(new station to the air, testing)

16 troposcatter

0901 WHTG 108.3 NJ Eatontown, ID, rp\$ 296

(FM for the Jersey shore)

236 17 troposcatter

0734 WCDO 100.9 NY Sidney, ID, \$ 167

Now that winter is here, I'll have to sit down and do a IF filter modification on the Carver tuner. Hope that everyone had the best of holidays. Dave

RICHARD CONTONE - 162-07 87th ST. - JAMAICA, NEW YORK 11414

NOVEMBER 1993 DX

23 Tropo

2000 WFAS 103.9 NY White Plains 26

2000 WRDN 103.9 NY Riverhead-West Hampton

WRDN came out of nowhere while listening to WFAS.. They blasted the classic "Layla" by Clapton and Cream..strictly classic rock. 57

I used a Realistic HT collapsible with the Archer 20 dB indoors to the STA-795. Hope December is a better month, Happy Turkey,

Richard Cantone

FM99.9
WEZN
10 MIDDLE STREET
BRIDGEPORT, CT 06604

FRED NORDQUIST - 7945 BOXFORD ROAD - CLAY, NEW YORK 13041-8606

Equipment: Receiver-Carver TX-11a with five (TOKO) 110 khz filters modified, switched to 50 kHz tuning steps, and mute defeat mod. Antenna-Two CM Stereo Probe 9s (SP9s) (on separate masts) at 30' & 35' AGL. CAC-11 75 ohm coax feedlines (cut 1/2 wavelength difference at 100 Mhz), tuneable phase box (3 mini variable capacitors in series), directional coupler (signal combiner) and RS variable attenuator for antenna matching/phasing, and home brew tuneable band-pass filter box (3 mini variable capacitors, 3 air coils & input/output baluns). Underlined new to log (with stereo).

OCTOBER 199316 GW RARE EVENT: WEZG-100.9 OFF AIR10/16-10/23-OWNERSHIP CHANGE!

0959 WBUG	101.1 NY	Ft. Plain-The Bug-k	(77)
1003 WDHI	100.3 NY	Delhi-USA Radio nx	(78)
1107 WMXO	100.9 NY	Olean-Oldies	(138)
1204 WDST	100.1 NY	Woodstock-finally! (mentioned 96.9)	(128)

OCTOBER 18 Tr

2201 CKEY	101.1 ON	Ft Erie Key-FM m	(142)
2246 CFBG	100.9 ON	Bracebridge "FM101 Muskoka"	(205)

DECEMBER 11 Es (1815-2037) to TN/MS

1952 WHRK	97.1 TN	Memphis
2018 WPRL	91.7 MS	Lorman
2018 WKTF	95.5 MS	Jackson

Totals: 1639. Cashed in on local (700' to East) being off the air. Some format/ownership changes occurred around Central NY, affecting 100.9/94.9-r & 99.5-r . 78-*reed*

BOB SMOLAREK - 31 MARK DRIVE - HIGH BRIDGE, NEW JERSEY 08829AUGUST 1993 DX22 Tr2035 WQLV 98.9 PA Millersburg, r23 Tr2137 WCDO 100.9 NY Sidney, Mets baseball29 Tr0100 WQZK 94.1 WV Keyser, rp

232

0102 WROG 102.9 MD Cumberland, k

0120 WYSN 101.7 PA Central City, m

0122 WEHT 89.1 MD Hagerstown, c,
relay of WETA 90.9 Washington

155

30 Tr2100 WDOX 93.1 NJ Wildwood Crest, b,
actually broadcasting on 93.0!

116

**HIGH COUNTRY
KOEL 92.3FM**

Hurricane Emily produced some of the best FM DX I've ever heard. It produced INCREDIBLE signal strengths. Washington D.C. stations were stronger than 50 kw stations 25 miles away in Trenton. WBIG in D.C. was way over semi-local WPLY in Media, Pa. WLAN 96.9 in Lancaster was so strong I would have thought they were 10 miles away.

JEFF FALCONER - BOX 63 - CLINTON, ONTARIO CANADA N0M 1L0

EQUIPMENT: Magnum Dynalab FT-101A, Stereo Probe 9 up 27' with rotor, RG-11 feed, Magnum Dynalab 205 preamp.

JULY 1993 DX25 Trs2100 CBLU 94.3 ON Huntsville, CBC English
net in mono.

165

AUGUST 1993 DX7 MS0052 KRPT 103.7 OK Anadarko,"here in Oklahoma" 1071

0102 KEYN 103.7 KS Wichita, "...KEY.."

924

10 Es1818 WRLX 92.1 FL W.Palm Beach, Relax 92.1,
b\$ music, ex: WNGS

1171

1823 WZZR 92.7 FL Stuart, r\$, 92.7 ZZR

1137

1827 WGYL 93.7 FL Vero Beach, Light 93.7, rm\$

1106

1827 WXDJ 95.7 FL Homestead, SS\$

1254

1848 WCMQ 92.3 FL Hialeah, SS ads\$

1236

August 12 MS

0100 WRQR	94.3 NC	Farmville, ..WRQR Farmville Greenville now leaves the air"	592
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0114 QBQF	90.7 ON	Ottawa, CBC FF MONO net likely this, previously by TrS	313
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21 Trs

2101 {WWBK}98.3 OH	Fredericktown, k\$, ID ex: WJMR	223
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SEPTEMBER 19934 GW/Trs

0012 {WYCD} 99.5 MI	Detroit, k\$, Young Country ex WOWF and WDFX.	117
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1138 CJQM	97.5 ON London, r\$, Q-103.1, ex 103.1. 103.1 leaves 9/6 and station becomes Q-97.5	46
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JEFF FALCONER'S report continues.OCTOBER 1993 DX13 GW/TrS

1302 CKDK 102.3 ON Woodstock, r\$, ex 102.3
parallel to 102.3 at this moment (102.3 now silent-gc) 52
1309 CICX 105.9 ON Orillia, k, The New Kix FM 126



DX has slowed down to a trickle, mainly just call/frequency changes. Hoping for some mid December Es again this year.

73, Jeff

NOVEMBER 1993 DX9 TrS

1805 GJBC1 94.3 ON Belleville, CBC FF Mono Network, ex 95.5 210
13 TrS
1238 (WYHK) 95.7 OH Gibsonburg, k\$, Y95.7 ex WRED
1411 WRBP 101.9 OH Hubbard, rs\$, 102 Jams 185

RICK SHAFTAN - 39 OLD MIDDLETOWN RD. - ROCKAWAY, NEW JERSEY 07866

(201) 586-3563, Beeper for DX: (201) 661-5662. EQUIPMENT: Realistic STA-2280 with 7/110 khz filters (see McVey article, Nov. 1990), Channel Master 20 element TV 45' AGL, phased with FM 13 and Winegard AP-3800 Amp (32.9 dB gain, 3.2 dB noise figure), 30' AGL and the Bolin Phase Box. (IN CAR: KenwoodKRC-430 with two 110 khz filters). All times approximate.

SEPTEMBER 1993 DX14 TrS

0116 WQGN 105.5 CT Groton, w/WDHA off
0120 WMJV 105.5 NY Patterson, Magic 105.5
0122 WLWV 105.5 MD Salisbury, Oldies 105.5
0130 WMGH 105.5 PA Tamaqua, Magic 105.5, call
0136 WBNI 105.5 NJ Cape May Courthouse,
Country 105, I have gotten traces of this one thru
WDHA with good trop to the South, proving the
ability of the phase box (WDHA is 5 miles away, in
the same direction)

NOVEMBER 1993 DX11 TrS

2006 WQBK 103.9 NY Renssalaer, "Your Classic
Rock and Roll Station, WQBK"
2202 CBOX 102.5 ON Ottawa, Radio Canada
ID and news in French

12 TrS

0850 CHTZ 97.7 ON St.Catherines, 97-7 Hits FM
1551 WWWD 97.7 PA Jersey Shore, 3WD
1658 WPCX 106.9 NY Auburn, Picks 106.9

15 TrS

1030 WYHH 92.9 DE Smyrna, "Newsradio
1410, WDOV Dover"

November 20 TrS

1101 WGRC 91.3 PA Lewisburg, "That's a
look the weather from WGRC-FM"

23 GW

2138 WMRW 98.5 NY Westhampton, // WDRE,
always there but just another part of the mess on this
channel. Very strong in SE CT when we were there
over Thanksgiving.

24 Tr

0918 WTEB 89.3 NC New bern, "here on WTEB"
0927 WOTJ 90.7 NC Morehead City, religion
through local WFUV New York
1015 WNHW 92.5 NC Nags Head, c/w thru Phila
1030 WOWI 102.9 VA Norfolk, promo for Fox 33.

29 Trs/GW

1900 WDLA 92.1 NY Walton, a nearest unheard
Pointed antennae towards it and sat on the channel
for several days. Got bursts of country previously
but finally a legal ID, and news.
2339 WJUX 88.7 NJ Franklin Lakes, pointed at em
and they were parallel to pest 103.1. Closest unheard
is now WVPH Piscataway, NJ. Closest unheard
commercial station is WEZX Scranton PA.

Total now 882, looking for 900 by the end of 1993 but I don't think I'll get it unless we get a night or two of good Es in December. Next month, DX to and from Florida including Myrtle Beach and report on stacked FM 13s to be installed soon.

Happy New Year

dBRUCE HALL - 5 STIRTON AVE. - BRANTFORD, ONTARIO CANADA N3T 1E2

Equipment: JVC JR-S201 receiver (IF mod with 3 110 khz filters), Magnum Dynalab Sleuth 205 amp, Probe 9 fed with RG6 at 50 feet AGL, Crown Rotor, Distances are in kilometres.

NOVEMBER 1993 DX5 Tr

0712 CJBC1 94.3 ON Belleville, CBC 261
0734 CJOI 95.5 ON Belleville, "You're listening to the new CJOI 95 in Belleville, Ontario, We are currently testing our signal-call 613-966-0955 261

13 TrS

0722 WCLR 95.7 OH Piqua, o, Cool 95, // WZLR 95.3 Xenia, new format and non-ID, ex Clear 95 466

14 Leonids MS

0738 WTKL 95.7 LA New Orleans, "Right now in New Orleans it is 76" on the Northside, xxxx 72, and 72" along the lake" 1705

15 Tr

0738 WYHK 95.7 OH Gibsonburg, "Just for listening to Toledo's 12 in a row station, Y 95.7, ex WTOD (Bruce, note the calls are changed-gc) 313

Nov. 21 TrS

0902 WFRC 104.3 NY Utica, "WFRC Froggy 104" Ex: WKW, new calls, format, non-ID 410
1730 WBYN 107.5 PA Boyertown, "WBYN FM 107.5 The Voice of Gospel Music" 495
1732 WEGW 107.5 WV Wheeling, "Eagle 107 the best rock and roll" 339

1757 WWKS 106.7 PA Beaver Falls, "WWKS Beaver Falls, Monroeville, Pittsburgh, 106-7 The Force" 261

22 Tr/MS

0649 WUCX 90.1 MI Bay City, "You're listening to Morning edition on WUCX FM, Delta College Public Radio." 296
0840 WXVS 90.1 GA Waycross, wx report "Waycross and SE Georgia Today" 1336
0851 WOI 90.1 IA Ames, "In northern Iowa and NW Iowa". **40th STATE LOGGED!** 1098

GREG CONIGLIO - 5100 GLENWOOD DR. - WILLIAMSVILLE, NEW YORK 14221

Equipment: Carver TX-11 tuner, modified with 150 khz filters. Stereo Probe 9 FM antenna, roof mounted, ~ 20' AGL, with rotor, CAC-11 and RG6 coax. Two capacitor in box phaser used, with Jerrold 10 element TV antenna, amplified with RS 0-10-20 dB FM amp.

NOVEMBER 1993 DX20 Es

2200 KZNA 90.5 KS Hill City, calls 1126

DECEMBER 1993 DX11 Es

2020 WBNN 95.9 MS Taylorsville, American Country countdown, B-95 slogan 981

2025 WCKW 92.3 LA LaPlace, op\$.calls 1119

14 Tr

2315 WHEN 107.9 NY Syracuse, k\$, calls way over local CING without phasing Central NY FMs in very strong. 130

15 Tr

1050 WDOK 102.1 OH Cleveland, phased over local CFNY. mr\$, calls 190

There has been quite a bit of off season E-skip this year. Does it seem to anyone that this happens a lot after a mediocre or poor Es season, while after good Es years there is not much skip? Another oddity that I have noticed is that each opening I have heard has been on a Saturday! (Only two have it FM so far but I have seen some more TV openings). See the e-skip summary somewhere in this issue, it turned out to be a mediocre year overall, but with abnormally low numbers of days with FM skip. For me personally, it was quite a good year; I guess I was lucky to be around at the right times. There weren't a lot of openings, but the few that I did have were very strong, sometimes easily overriding many locals with phasing. June was excellent here, but May and July were a disappointment, especially May. Tropo have been somewhat disappointing for the most part this year. There has not been any opening at all of any significance since the big openings to WI, MI, IN, and OH at the end of August, until last night (December 14). I am told though that we just missed very strong openings that affected the midwest in mid-September. We have not had enough stable, high pressure systems building over us to allow any decent tropo to set up. The highlight of 1993 has to be the 779 mi. FM tropo to Jefferson City (KJMO 100.1) on June 17th, after just four hours earlier logging 1709 mi double hop FM to Monterrey, Mexico (Hi Fernando!) Thanks Matt Sittel for sending lots of logos!

STATION NEWS:

NORTHEAST: In Avalon, New Jersey, WWOC 94.3 changes calls to WRDR, and is going classical. In nearby Delaware, WYHH 92.9 Smyrna is on the air. They relay WDOV 1410 Dover, which runs a news/talk format. And in Baltimore, WVRT 104.3 has begun to simulcast cross-town WWMX 106.5 'Mix 106.5'. In nearby Bethesda, Md., WLTT 94.7 is no more. They are yet another 'Arrow' station, WARW 'Arrow 94.7' which stands for an 'adult rock and roll' format. They are supposed to do this until January 1, 1994, when they will debut a new format. In the New York Metro area, some changes have occurred. WMRW 98.5 Westhampton, on Long Island, is on the air. They relay WDRE 92.7 Garden City, which is modern rock (WDRE also has a relay in the Philadelphia area by the way: WIBF 103.9 Jenkintown). There is some new from farther up the coast, in Maine. WTHT 107.5 has reportedly gone to a 'hot country' format, no word on any call change. WHQO, 107.9 in Skowhegan, has switched from oldies to light rock, with the slogan 'The light at the end of the dial'. WTVL 98.5 Waterville-Augusta has changed to a country format and 'B 98.5' (be careful, there are several stations with that slogan on 98.5, but as far as I know WTVL is the only one that is country). They have yet to change calls to reflect their new slogan. WCTB 93.5 in Fairfield, Me. is on the air, so far with just Christmas music, no word yet on what they will run afterwards. Rich Gallison says they will be happy to QSL, via WTOS 105.1 Skowhegan, who owns WCTB. WPME 95.5 Topsham, Me. is on the air and stereo, with country music. They are simulcasting with WCME 96.7 Boothbay Harbor.

SOUTHEAST: WKNF 94.3 Oak Ridge-Knoxville is back on after a long silence, with country oldies. WNWS 101.5 Jackson, Tenn. has signed on the air, with a news/talk format. It apparently is not parallel to the AM station in Memphis with the same calls and format. Speaking of the Memphis area, WYYA 95.7 Olive Branch, Ms. has reportedly signed on the air with new rock music. Just north of there, 101.9 in Central City, Kentucky becomes WQXQ, with a top 40 format. In the Carolinas, WKVS 103.3 Lenoir, NC is on the air. They are 'Kicks 103.3', and country. WTHP 98.3 Thronston, NC goes to a Christian adult contemporary format. WMFX 102.3 in St. Andrews-Columbia is moving more in a classic rock direction. WYAV 104.1 Myrtle Beach, which recently added Howard Stern's show, has now gone classic rock. Moving to Alabama, two 98.3's in that state have changed format. WDLT Chickassaw-Mobile has gone urban 'Smooth 98.3'. And farther north, WAGH Ft. Mitchell-Columbus (GA) is now urban adult contemporary. Back in the Mobile area, WNSP 105.5 in Bay Minette is on the air, as 'News/Sports 105.5'. Some news from Mississippi this month as well. WIZK 93.5 in Bay Springs has become country, as

Southeast cont: 'I-93, Real Country'. WBAD 94.3 in Leland has LMAed a station in Greenwood, though we are not sure which. The stations are urban. WSSI 98.3 in Carthage is operating in mono. Two stations in MS are using the 'Classic 102' slogan. WWSL 102.3 Philadelphia, an oldies station, uses that, as does WAGR 102.5 in Lexington. WHLV-FM 102.5 Ellissville-Hattiesburg is 'Love 102.5'. WKNZ 101.7 Collins, Miss. is back to a country format. In Georgia, WMGB 93.7 Jeffersonville-Macon has come on the air, with a top 40 format. Moving down to Florida, WKGT 105.1 in Century is silent. WJED 91.1 in Dogwood Lakes is operating in mono. WTGF 90.5 in Milton, Fla. is on the air now, mono, with a gospel format. DeFunak Sp. 103.1 is WLGH, 'Light 103.1, the jazz station'. WNCV 100.3 Niceville-Fort Walton Beach is on, 'The Emerald Coast's New Love 100.3', soft AC format. WOWW 107.3 Pensacola is using 'The New Wow 107.3'. Another panhandle change, WPFM 107.9 Panama City goes modern rock, as '107 Dot 9'.

MIDWEST: WZXA 104.7 Sturetevant-Milwaukee is on with AC/oldies, 'Sunny 104.7'. WDKM 106.1 Adams, Wisc. is on with country. WMLI 96.3 Sauk City goes to a 'rock/AC' format. 107.1 in Fond du Lac, Wisc. changes calls to KFIZ-FM. In Michigan, I heard WKJC 104.7 Tawas City bragging 'also on 94.9'. Perhaps this is the new WKJZ Hillman'. In Illinois, WDBR 103.7 Springfield goes to hot/ac, 'Variety 103.7'. In Oklahoma, 106.9 Muskogee changes to KHTS, to reflect its 'K-Hits' slogan. In the same Tulsa market, KCMA 92.1 Broken Arrow, classical during the day, adds modern rock at night.

WEST: In Texas 91.7 Austin has been assigned two sharetimers, KOOP, a Pacifica station, and KAEM, an alternative station at U of Texas (who wants different calls, KVRX perhaps, so they won't sound like calls that belong to rival Texas A&M!). KRQA 99.7 in Amarillo is on, with a/c. KDSQ 101.7 Denison goes to an AC/oldies format. 98.3 Pleasanton/San Antonio becomes KBUC, classic San Antonio calls, and a country format. KLTR 93.7 Houston is no more, now KRW, 'Arrow', for adult rock and roll. In Corsicana, 107.9 goes to a Spanish Tejano format, 'Kick', and KICI. In the Los Angeles area, 98.3 West Covina changes calls from KBOB to KMQA, Spanish and 'La Maquina'. KTMN 98.5 in Los Alamos-Albuquerque is on, with classic rock, 'The Mountain'. In Montana, top 40 KBOZ changes frequency from 93.7 to 97.5. 93.7 is now KATH, and country, with a 'Cat' slogan. Thanks to the following people for assistance with Station News: Doug Smith, Matt Sittel, Dave Nieman, dBruce Hall, Tim Noonan, Paul Mount, Rich Gallison, and Rich Shaftan. Oh I forgot to mention some changes, 106.3 Mt. Kisco now WMJU, ac simulcasting WMJV 105.5 Patterson. WWKS 106.7 Beaver Falls-Pittsburgh to hard rock 'The Force'. No call change has occurred as of yet.

SOUTHERN FM DX

JANUARY 1994

SOUTHERN FM DX is for reporters from: AL, AR, AZ, CA, CO, DE, DE, FL, GA, HI, KS, KY, LA, MD, MO, MS, NC, NV, OK, SC, TN, TX, UT, & WV. (Also MEXICO, S. AM, AUSTRALIA, NEW ZEAL.)

Danny Buntin
1312 N. Skyline
Stillwater, OK 74075

DEADLINE: 14th

IT'S 1994 ALREADY! HAPPY EXCITING NEW YEAR, AND MUCH MORE SO THAN '93 WAS.

Doug Smith, 14 Brookside Court, Nashville, TN 37209-4503

Some real live DX! This from Warner Park, about 5 miles from home.

11/24 Trs

11/24 Trs

0957	WVHR	100.9	TN Huntingdon, good, ads 90	1001	WWYN	106.9	TN McKenzie,k	108
	WHMA	100.5	AL Anniston,"Alabama 100"182		WAKQ	105.5	TN Paris, r, "KQ-105"	82
1001	WEZK	97.5	TN Knoxville,leg.ID w/am 163		WFKX	95.9	TN Henderson, local as	112
	WNWS	101.5	TN Jackson, tent. at 1001 but full legal ID & G. Gordon Liddy show at 1134 106" & ID		WWZD	106.7	MS New Albany, "Wizard	161
			And 1143 106.3, two unIDs, one country the other religious. Suspect WKDZ-KY and WBTG-AL.					

FM STATISTICS

FM SCOREBOARD

UPDATED 12/14/93

FRED NORDQUIST
7945 BOXFORD RD
CLAY, NY 13041
e-mail: fidonet 1:260/374
DEADLINE: THE 5TH

DXER NAME	DXER LOCATION	TOTAL	88-92	ES	MS	AU	USA	CN	MX	FO	TPU	YB	AS OF:
DYER	PAT	TX SAN ANTONIO	2534	403	2071	67	0	44+	4	21	5	75	70 02/28/92
STROBEL	RALPH	IN MUNCIE	2182	578	699	168	7	43+	7	3	2	56	72 09/02/93
MERRILL	FRANK	IL MACOMB	1963	?	804	8	8	47	8	6	2	63	? 07/19/92
BUNTIN	DANNY	OK STILLWATER	1957	325	1163	4	0	48+	5	9	2	65	74 09/01/92
PUGH	KEITH	AL NEW HOPE	1907	297	964	95	18	46+	7	11	5	70	83 02/23/93
ELVING	BRUCE	MN DULUTH	1750	318	1375	9	8	47+	4	1	0	53	48 02/10/92
EBELING	JOHN	MN BLOOMINGTON	1744	298	1001	48	83	47+	6	5	0	59	52 01/01/93
FELA	JOSEPH	NJ S. PLAINFIELD	1715	378	912	2	10	37+	6	0	3	47	68 10/08/93
CONIGLIO	GREG	NY WILLIAMSVILLE	1701	300	843	24	38	41+	8	2	4	54	85 12/09/93
NORDQUIST	FRED	NY CLAY	1645	345	805	48	59	41+	5	0	3	50	69 12/14/93
BUGAJ	MIKE	CT ENFIELD	1592	234	970	25	23	37+	5	1	3	47	74 01/11/93
NIEMAN	DAVID	NY AKRON	1512	409	467	53	27	43+	8	0	3	55	59 11/07/93
MCCORMACK	FRED	ND FARGO	1339	305	990	3	52	48+	6	3	0	58	74 08/03/90
SEYBOLD	BOB	NY DUNKIRK	1326	212	611	0	2	45	8	3	3	59	58 06/24/90
EBELING	JOHN	MN PROSIT	1247	243	836	3	6	48+	9	2	0	60	75 01/01/93
JEFFERSON	JOHN	CA DIABLO REGION	1212	274	705	7	1	29	4	6	0	39	74 11/14/92
ALLEN	DOUGLAS	CO WOODLAND PARK	1122	168	854	83	19	40	5	4	0	49	88 08/24/93
HAWK	MIKE	NE OMAHA	1080	203	491	29	0	47+	4	4	0	56	91 08/04/93
SMOLAREK	BOB	NJ OLDWICK	1046	175	458	2	4	36+	4	0	2	43	78 01/10/93
BRUMFIELD	DAVE	IN RICHMOND	897	165	325	15	0	36	4	2	2	44	81 09/01/91
SHAFTAN	RICHARD	NJ ROCKAWAY	882	183	313	10	0	34+	4	0	1	40	78 11/30/93
HOLBROOK	HANK	MD CHEVY CHASE *	866	224	234	18	0	35+	6	0	3	45	59 10/05/91
MICHALEK	ALAN	MA SPRINGFIELD	812	106	495	0	0	36+	5	0	0	42	52 10/01/90
ROSS	ROBERT	ON LONDON	760	214	308	0	0	34	7	0	2	43	76 07/27/92
OETTING	DANIEL	PA EXTON	756	190	250	9	2	34+	6	0	0	41	77 06/07/91
JEFFERSON	JOHN	CA ANTIOCH	710	172	358	43	1	21	4	4	0	29	88 11/14/92
GREENE	GEORGE	OH AKRON	706	54	234	0	0	33+	3	0	0	37	71 03/09/91
SITTEL	MATT	FL TALLAHASSEE	701	103	206	1	0	34	2	3	2	41	92 10/21/93
BRUMFIELD	DAVE	IN MUNCIE	682	149	65	1	0	29	1	1	0	31	79 03/01/90
HALL	D. BRUCE	ON BRANTFORD	670	121	69	96	2	39+	5	1	2	48	90 07/10/93
NIENAJADLY	BILL	NJ CLIFTON	640	103	235	8	0	34+	2	0	1	38	75 01/30/92
NIEMAN	DAVID	NY ROCK CITY	597	135	44	4	0	25+	2	0	0	28	91 11/07/93
WISEBLOOD	STEVEN	TX BROWNSVILLE	520	110	174	2	0	26	0	5	6	37	92 07/10/93
MEADE	LARRY	IL CHICAGO	459	85	65	6	0	23	2	0	0	25	79 09/05/90
SITTEL	MATT	NC RALEIGH	456	66	164	0	2	23+	1	3	0	28	88 01/02/92
NOLLMAN	BILL	CT NORWICH	453	46	155	17	0	31+	9	0	1	35	81 11/24/91
BRANDENBURG	TODD	KS SILVER LAKE	418	68	58	1	0	27	1	0	0	28	80 07/14/92
MORGAN	GIL	MO STOCKTON	357	34	3	0	0	16	0	1	0	17	93 11/09/93
GEORGE	PETER	MA STOUGHTON	319	67	95	20	2	35+	5	0	0	41	67 06/02/93
MANCUSO	GUS	MD CHEVERLY	318	55	61	0	0	23+	0	0	0	24	70 06/07/92
HEPBURN	WILLIAM	ON BRAMPTON	309	183	83	1	6	21	2	0	1	24	85 11/10/91
RENFWREW	JIM	NY ROCHESTER	282	70	51	0	0	20+	2	0	0	23	76 07/10/92
MANCUSO	GUS	WV BIRCH RIVER	248	28	4	0	0	15	0	0	0	15	87 06/05/92
OUNT	PAUL	NJ MONMOUTH	195	25	20	0	0	17+	0	0	0	18	90 06/17/92
JEZIORKSI	MIKE	FL CRESCENT BEAC	191	38	29	0	0	17	1	0	2	20	93 07/25/93
ONYSHUK	KEN	IL STEGER	168	35	0	0	0	7	0	0	0	7	68 08/09/93
MEADE	LARRY	KY PRICE	165	35	0	14	0	10+	0	0	0	11	79 09/05/90
WHEELER	FRANK	PA ERIE	162	23	2	0	0	8	1	0	0	9	64 08/20/90

* VERIFIED.

COLUMN DEFINITIONS: are as follows: Total = Total number of FM stations logged from DXer's location (All loggings should be received within 25 mile radius of this location to count.) Freq. changes count as a station, call letter changes DO NOT count. Also count a station only once regardless if logged by different propagation modes. 88-92 = All stations logged from 88.0 to 91.99 Mhz. ES=Total number of stations logged by E-skip. MS=Total by meteor scatter. AU=Total via Aurora. USA=Total number of states and the "+" = Washington, DC. CN=Number of Canadian provinces logged. MX=Number of Mexican states logged. PO=Number of foreign countries, but not Canada/Mexico. TPU (Total number of political units)=Sum of USA CN MX and FO. YB = The year you began DXing from this location. Other groundrules for computing log totals are included in AUGUST 88 VUD Page 48. Note: Now is the time to update and submit your latest stats to keep on the Scoreboard. Also submit any distance records, states stats and personal best statistics. Send via E-mail if you have computer/modem. Laserjet printouts of personalized DX distances covering FM/TV North/Central America and Caribbean cities (database=5165), with choice of miles or kilometers, are available for only \$2 donation. Include your DX location and grid coordinates with your order. 73...Fred.



STATISTICS

DEADLINES: 5th of December, March, June & September

MAILING ADDRESS:

David J. Nieman

12284 Nica Road

Akron New York 14001-8529

JANUARY

1994

DXers Name	DXers Location	Total	UHF	LPTV xtr	Es	NB	AU	USA	CN	MX	OF	TPU	YB	as of:	LAT.	LONG.
1 Kadet Jeff	IL Macomb	1307	837	359	234	3	0	45+	7	9	5	68	83	4/1/93	403030	904030
2 Seybold Bob	NY Silver Creek	1270	728	213	217	30	6	49+	7	1	5	63	50	8/17/93	423130	791130
3 Draeb William	WI Kewaunee	1131	580	191	210	113	1	43+	7	2	1	54	53	7/8/93	442730	873130
4 Kramer Robert	IL Chicago	632	364	83	108	30	0	40	7	3	4	54	71	9/25/93	420017	871500
5 Siegel Gary	OH Toledo	610	283	34	143	0	0	39+	8	1	2	48	70	4/10/93	414130	833030
6 Lapham Mike	NY Jamestown	581	409	77	70	1	0	37+	6	0	3	47	78	4/23/93	420755	791330
7 Nieman Dave	NY Akron	553	363	76	90	5	0	37+	7	0	0	45	84	12/5/93	425824	783140
8 Combs John	FL Orlando	461	235	62	129	13	0	30+	2	6	9	48	72	5/23/93	283230	812330
9 Garcia Fernando	IL Cd. Guadalupe	426	261	56	68	0	0	28	0	5	4	37	81	11/4/93	253830	1001230
10 Bryant Tom	TN Nashville	383	184	18	78	3	0	30	4	4	1	39	64	9/18/93	360422	885615
11 Coniglio Greg	NY Williamsburg	378	219	30	87	0	0	33	6	0	2	41	86	9/14/93	425907	784100
12 Norquist Fred	NY Clifton	340	199	21	72	3	0	34+	6	0	1	42	86	4/27/93	430830	780830
13 Wheeler Frank	PA Erie	326	91	0	237	5	2	33+	9	0	0	44	53	6/20/93	420530	795530
14 Sittel Matt	FL Tallahassee	316	186	22	78	0	0	28	2	5	3	36	92	10/6/93	302830	841830
15 Hepburn Bill	ON Brampton	311	216	34	47	0	0	29	5	0	0	34	85	5/31/93	434130	794730
16 Krusza Jeff	LA Baton Rouge	240	158	34	27	0	0	20+	0	4	1	26	93	12/1/93	302700	910900
17 Nieman Dave2	NY Rock City	218	152	26	11	0	0	14+	3	0	0	18	81	12/5/93	420054	782812
18 Hanley Christopher	IL Galesburg	195	135	8	52	0	0	27	5	0	1	33	88	7/1/93	405730	902130
19 Allen Doug	CO Woodland Park	135	51	42	49	1	0	30	4	3	0	37	88	4/10/93	380030	1050330
20 Renfrew Jim	NY Rochester	92	35	4	34	0	0	17	3	0	0	20	89	4/10/93	430730	773630
21 Hanley Christopher2	NC Winston-Salem	90	36	0	22	0	0	18	2	0	1	21	80	7/1/93	360730	801330

TV STATISTICS DISTANCE RECORDS

JANUARY 1994

Ch	Es	Yr	NB	AU	Call	COU/Pro/Sta	City of License	Dist	DXers Name	DXers Location
1	2 Es				CBUT	British Columbia	Vancouver	2111	Frank Wheeler	Erie PA
2	2 Tr				KETS	Arkansas	Little Rock	786	Fernando Garcia	Cluded Guadalupe NL
3	2 MS									
4	2 AU									
5	3 Es				YVVK	VENEZUELA	Barcelona	2419	Greg Coniglio	Williamsburg NY
6	3 Tr				KTBS	Louisiana	Shreveport	613	Fernando Garcia	Cluded Guadalupe NL
7	3 MS				KTVO	Missouri	Kirksville	749	Dave Nieman	Akron NY
8	3 AU									
9	4 Es				KNBC	California	Los Angeles	2135	Frank Wheeler	Erie PA
10	4 Tr				WTWY	Alabama	Dothan	977	Fernando Garcia	Cluded Guadalupe NL
11	4 MS				WRC	District of Columbia	Washington	733	Jeff Kadet	Macomb IL
12	4 AU									
13	5 Es				XHAJ	Veracruz	Las Lajas	1496	Jeff Kadet	Macomb IL
14	5 Tr				WPTV	Florida	West Palm Beach	1250	Fernando Garcia	Cluded Guadalupe NL
15	5 MS				KHAS	Nebraska	Hastings	1033	Dave Nieman	Akron NY
16	5 AU									
17	6 Es				KRMA	Colorado	Denver	1312	Frank Wheeler	Erie PA
18	6 Tr				WBRC	Alabama	Birmingham	970	Fernando Garcia	Cluded Guadalupe NL
19	6 MS									
20	6 AU									
21	7 Es				WSVN	Florida	Miami	1244	Fernando Garcia	Cluded Guadalupe NL
22	7 Tr									
23	7 MS									
24	7 AU									
25	8 Es									
26	8 Tr				WFLA	Florida	Tampa	1104	Fernando Garcia	Cluded Guadalupe NL
27	8 MS									
28	8 AU									
29	9 Es									
30	9 Tr				WTVC	Tennessee	Chattanooga	1067	Fernando Garcia	Cluded Guadalupe NL
31	9 MS									
32	9 AU									
33	10 Es									
34	10 Tr				KWTX	Texas	Waco	716	Jeff Kadet	Macomb IL
35	10 MS									
36	10 AU									
37	11 Es									
38	11 Tr				WINK	Florida	Fort Myers	1138	Fernando Garcia	Cluded Guadalupe NL
39	11 MS									
40	11 AU									
41	12 Es									
42	12 Tr				WPEC	Florida	West Palm Beach	1250	Fernando Garcia	Cluded Guadalupe NL
43	12 MS									
44	12 AU									
45	13 Es									
46	13 Tr				WTVT	Florida	Tampa	1104	Fernando Garcia	Cluded Guadalupe NL
47	13 MS									
48	13 AU									

Ch	Ex	Tr	MB	AU	Call	COU/Pro/Sta	City of License	Distr	DXers Name	DXers Location
49	14	Tr			WTLK	Georgia	Rome	1077	Fernando Garcia	Cludad Guadalupe NL
50	14	Tr			WABW	Georgia	Pelham	1045	Fernando Garcia	Cludad Guadalupe NL
51	15	Tr			WCEU	Florida	New Smyrna Beach	1203	Fernando Garcia	Cludad Guadalupe NL
52	15	Tr			WOWL	Alabama	Florence	977	Fernando Garcia	Cludad Guadalupe NL
53	16	Tr			WJWJ	South Carolina	Beaufort	1286	Fernando Garcia	Cludad Guadalupe NL
54	16	Tr			WUSF	Florida	Tampa	1104	Fernando Garcia	Cludad Guadalupe NL
55	17	Tr			WLRN	Florida	Miami	1244	Fernando Garcia	Cludad Guadalupe NL
56	17	Tr			WJKS	Florida	Jacksonville	1175	Fernando Garcia	Cludad Guadalupe NL
57	18	Tr			WKCF	Florida	Clermont	1143	Fernando Garcia	Cludad Guadalupe NL
58	18	Tr			WDHN	Alabama	Dothan	977	Fernando Garcia	Cludad Guadalupe NL
59	19	Tr			WHNT	Alabama	Huntsville	1024	Fernando Garcia	Cludad Guadalupe NL
60	19	Tr			KTEJ	Arkansas	Jonesboro	900	Fernando Garcia	Cludad Guadalupe NL
61	20	Tr			WCES	Georgia	Wrens	1189	Fernando Garcia	Cludad Guadalupe NL
62	20	Tr			WBH	Florida	Fort Myers	1138	Fernando Garcia	Cludad Guadalupe NL
63	21	Tr			WTCE	Florida	Fort Pierce	1233	Fernando Garcia	Cludad Guadalupe NL
64	21	Tr			WBSG	Georgia	Brunswick	1195	Fernando Garcia	Cludad Guadalupe NL
65	22	Tr			WCLF	Florida	Clearwater	1084	Fernando Garcia	Cludad Guadalupe NL
66	22	Tr			KLTJ	Texas	Galveston	908	Jeff Kadet	Macomb IL
67	23	Tr			WLTV	Florida	Miami	1244	Fernando Garcia	Cludad Guadalupe NL
68	23	Tr			KBSI	Missouri	Cape Girardeau	1020	Fernando Garcia	Cludad Guadalupe NL
69	24	Tr			WMFE	Florida	Orlando	1173	Fernando Garcia	Cludad Guadalupe NL
70	24	Tr			WGXA	Georgia	Macon	1113	Fernando Garcia	Cludad Guadalupe NL
71	25	Tr			WPBF	Florida	Tequesta	1228	Fernando Garcia	Cludad Guadalupe NL
72	25	Tr			WACS	Georgia	Dawson	1041	Fernando Garcia	Cludad Guadalupe NL
73	26	Tr			WAGT	Georgia	Augusta	1216	Fernando Garcia	Cludad Guadalupe NL
74	26	Tr			WEVU	Florida	Naples	1147	Fernando Garcia	Cludad Guadalupe NL
75	27	Tr			WTCT	Illinois	Marion	1089	Fernando Garcia	Cludad Guadalupe NL
76	27	Tr			WTXL	Florida	Tallahassee	1025	Fernando Garcia	Cludad Guadalupe NL
77	28	Tr			WTGS	South Carolina	Hardeeville	1240	Fernando Garcia	Cludad Guadalupe NL
78	28	Tr			WFTS	Florida	Tampa	1104	Fernando Garcia	Cludad Guadalupe NL
79	29	Tr			WFLEX	Florida	West Palm Beach	1250	Fernando Garcia	Cludad Guadalupe NL
80	29	Tr			WDCC	Georgia	Cochran	1117	Fernando Garcia	Cludad Guadalupe NL
81	30	Tr			WAWS	Florida	Jacksonville	1175	Fernando Garcia	Cludad Guadalupe NL
82	30	Tr			WSFP	Florida	Fort Myers	1138	Fernando Garcia	Cludad Guadalupe NL
83	31	Tr			WFXL	Georgia	Albany	1054	Fernando Garcia	Cludad Guadalupe NL
84	31	Tr			WAAY	Alabama	Huntsville	1024	Fernando Garcia	Cludad Guadalupe NL
85	32	Tr			WTMV	Florida	Lakeland	1135	Fernando Garcia	Cludad Guadalupe NL
86	32	Tr			WHOA	Alabama	Montgomery	955	Fernando Garcia	Cludad Guadalupe NL
87	33	Tr			WBFS	Florida	Miami	1244	Fernando Garcia	Cludad Guadalupe NL
88	33	Tr			WCFT	Alabama	Tuscaloosa	921	Fernando Garcia	Cludad Guadalupe NL
89	34	Tr			WTVK	Florida	Fort Pierce	1233	Fernando Garcia	Cludad Guadalupe NL
90	34	Tr			WNGM	Georgia	Athens	1156	Fernando Garcia	Cludad Guadalupe NL
91	35	Tr			WDLP	Florida	Miami	1244	Fernando Garcia	Cludad Guadalupe NL
92	35	Tr			WOFL	Florida	Orlando	1173	Fernando Garcia	Cludad Guadalupe NL
93	36	Tr			WFTX	Florida	Cape Coral	1133	Fernando Garcia	Cludad Guadalupe NL
94	36	Tr			WATL	Georgia	Atlanta	1100	Fernando Garcia	Cludad Guadalupe NL
95	36	Tr			WTTC	Florida	Saint Petersburg	1080	Fernando Garcia	Cludad Guadalupe NL
96	38	Tr			WLTZ	Georgia	Columbus	1031	Fernando Garcia	Cludad Guadalupe NL
97	39	Tr			WDZL	Florida	Miami	1244	Fernando Garcia	Cludad Guadalupe NL
98	39	Tr			KHTV	Texas	Houston	958	Robert Kramer	Chicago IL
99	40	Tr			WWSB	Florida	Sarasota	1098	Fernando Garcia	Cludad Guadalupe NL
100	40	Tr			WTWC	Florida	Tallahassee	1025	Fernando Garcia	Cludad Guadalupe NL
101	41	Tr			WMGT	Georgia	Macon	1113	Fernando Garcia	Cludad Guadalupe NL
102	41	Tr			W41BN	Alabama	Dothan	977	Fernando Garcia	Cludad Guadalupe NL
103	42	Tr			WXEL	Florida	West Palm Beach	1250	Fernando Garcia	Cludad Guadalupe NL
104	42	Tr			WBMG	Alabama	Birmingham	970	Fernando Garcia	Cludad Guadalupe NL
105	43	Tr			WMOD	Florida	Melbourne	1032	Jeff Kadet	Macomb IL
106	43	Tr			WGQ	Alabama	Louisville	983	Fernando Garcia	Cludad Guadalupe NL
107	44	Tr			WTQG	Florida	Saint Petersburg	1090	Fernando Garcia	Cludad Guadalupe NL
108	44	Tr			WJTC	Florida	Pensacola	857	Fernando Garcia	Cludad Guadalupe NL
109	45	Tr			WHFT	Florida	Miami	1244	Fernando Garcia	Cludad Guadalupe NL
110	45	Tr			WTCI	Tennessee	Chattanooga	1097	Fernando Garcia	Cludad Guadalupe NL
111	46	Tr			WNPL	Florida	Naples	1147	Fernando Garcia	Cludad Guadalupe NL
112	46	Tr			WGNX	Georgia	Atlanta	1100	Fernando Garcia	Cludad Guadalupe NL
113	47	Tr			WNFT	Florida	Jacksonville	1175	Fernando Garcia	Cludad Guadalupe NL
114	47	Tr			W47BP	Mississippi	Hattiesburg	795	Fernando Garcia	Cludad Guadalupe NL
115	48	Tr			WAFF	Alabama	Huntsville	1024	Fernando Garcia	Cludad Guadalupe NL
116	48	Tr			KNVO	Texas	McAllen	894	Matt Sittel	Tallahassee FL
117	49	Tr			WTLH	Georgia	Bainbridge	1017	Fernando Garcia	Cludad Guadalupe NL
118	49	Tr			KHSX	Texas	Irving	826	Robert Kramer	Chicago IL
119	50	Tr			WBHS	Florida	Tampa	1104	Fernando Garcia	Cludad Guadalupe NL
120	50	Tr			WFTY	District of Columbia	Washington	733	Jeff Kadet	Macomb IL
121	51	Tr			WSCV	Florida	Fort Lauderdale	1246	Fernando Garcia	Cludad Guadalupe NL
122	51	Tr			WTVE	Pennsylvania	Reading	775	Jeff Kadet	Macomb IL
123	52	Tr			WTGL	Florida	Cocoa	1010	Jeff Kadet	Macomb IL
124	52	Tr			W52BC	Alabama	Montgomery	955	Fernando Garcia	Cludad Guadalupe NL
125	53	Tr			WFU	Tennessee	Cleveland	1123	Fernando Garcia	Cludad Guadalupe NL
126	53	Tr			KWHD	Colorado	Cripple Creek	753	Jeff Kadet	Macomb IL
127	54	Tr			WFXG	Georgia	Augusta	1216	Fernando Garcia	Cludad Guadalupe NL
128	54	Tr			WXTK	Georgia	Columbus	1031	Fernando Garcia	Cludad Guadalupe NL
129	55	Tr			WACK	Florida	Leesburg	1148	Fernando Garcia	Cludad Guadalupe NL
130	55	Tr			WSST	Georgia	Cordelia	1084	Fernando Garcia	Cludad Guadalupe NL
131	56	Tr			WFSG	Florida	Tallahassee	1025	Fernando Garcia	Cludad Guadalupe NL
132	56	Tr			WLVI	Massachusetts	Cambridge	1019	Jeff Kadet	Macomb IL

Ch	Es	Tr	MS	AU	Call	COU/Pro/Rebs	City of License	Dist	DXers Name	DXers Location
133	57	Tr			W57BA	Florida	Tampa	1104	Fernando Garcia	Ciudad Guadalupe NL
134	57	Tr			W57BV	Alabama	Florence	977	Fernando Garcia	Ciudad Guadalupe NL
135	58	Tr			WNJB	New Jersey	New Brunswick	850	Jeff Kadet	Macomb IL
136	58	Tr			W58BO	Mississippi	Natchez	871	Fernando Garcia	Ciudad Guadalupe NL
137	59	Tr			WJEB	Florida	Jacksonville	1175	Fernando Garcia	Ciudad Guadalupe NL
138	59	Tr			K59DG	Louisiana	New Orleans	887	Fernando Garcia	Ciudad Guadalupe NL
139	60	Tr			WTJP	Alabama	Gadsden	1026	Fernando Garcia	Ciudad Guadalupe NL
140	60	Tr			KVDA	Texas	San Antonio	883	Jeff Kadet	Macomb IL
141	61	Tr			WDI	Tennessee	Chattanooga	1097	Fernando Garcia	Ciudad Guadalupe NL
142	61	Tr			WTGI	Delaware (NJ)	Wilmington	799	Jeff Kadet	Macomb IL
143	62	Tr			WB2AY	Maryland	Fredenc	705	Jeff Kadet	Macomb IL
144	62	Tr			K62AH	Colorado	Cheyenne Wells	831	Jeff Kadet	Macomb IL
145	63	Tr			WHSG	Georgia	Monroe	1138	Fernando Garcia	Ciudad Guadalupe NL
146	63	Tr			W63AB	Pennsylvania	Mansfield	711	Jeff Kadet	Macomb IL
147	64	Tr			W64BQ	Mississippi	Jackson	754	Fernando Garcia	Ciudad Guadalupe NL
148	64	Tr			W64BZ	Mississippi	Jackson	587	Jeff Kadet	Macomb IL
149	65	Tr			W65BG	Florida	Tallahassee	1025	Fernando Garcia	Ciudad Guadalupe NL
150	65	Tr			WSTJ	New Jersey	Vineland	829	Jeff Kadet	Macomb IL
151	66	Tr			WSWS	Alabama	Opelika	616	Jeff Kadet	Macomb IL
152	66	Tr			WETG	Pennsylvania	Erie	568	Jeff Kadet	Macomb IL
153	67	Tr			W67CO	Alabama	Huntsville	1024	Fernando Garcia	Ciudad Guadalupe NL
154	67	Tr			WSNL	New York	Smythtown	914	Jeff Kadet	Macomb IL
155	68	Tr			WABM	Alabama	Birmingham	970	Fernando Garcia	Ciudad Guadalupe NL
156	68	Tr			WWHT	New Jersey (NY)	Newark	884	Jeff Kadet	Macomb IL
157	69	Tr			WHYS	Florida	Hollywood	1248	Fernando Garcia	Ciudad Guadalupe NL
158	69	Tr			WVEU	Georgia	Atlanta	1100	Fernando Garcia	Ciudad Guadalupe NL
159	70	Tr			K70EN	Kansas	Manhattan	326	Jeff Kadet	Macomb IL
160	70	Tr			K70DR	Minnesota	Blue Earth	280	Jeff Kadet	Macomb IL
161	71	Tr			K71BO	Kansas	Herington	356	Jeff Kadet	Macomb IL
162	71	Tr			W71AI	New York	Stamford	202	Dave Nieman	Akron NY
163	72	Tr			W72AT	Pennsylvania	East Towanda	749	Jeff Kadet	Macomb IL
164	72	Tr			W72AJ	Michigan	Escanaba	562	Robert Kramer	Carbondale IL
165	73	Tr			W73AR	New York	Arcade	32	Dave Nieman	Akron NY
166	73	Tr								
167	74	Tr			K74DZ	Minnesota	Winona	247	Jeff Kadet	Macomb IL
168	74	Tr			K74CO	Iowa	Ottumwa	97	Jeff Kadet	Macomb IL
169	75	Tr			K75CH	Kansas	Junction City	341	Jeff Kadet	Macomb IL
170	75	Tr			W75AQ	New York	Edmeston	167	Dave Nieman	Akron NY
171	76	Tr			W76AA	Michigan	Iron Mountain	581	Robert Kramer	Carbondale IL
172	76	Tr			W76AF	New York	Jefferson	202	Dave Nieman	Akron NY
173	77	Tr			W77AA	Michigan	Iron Mountain	561	Robert Kramer	Carbondale IL
174	77	Tr								
175	78	Tr								
176	78	Tr								
177	79	Tr			W79AY	New York	Worcester	192	Dave Nieman	Akron NY
178	79	Tr			CITY	Ontario	Toronto	111	Frank Wheeler	Erie PA
179	80	Tr								
180	80	Tr								
181	81	Tr			W81AM	New York	Milford	183	Dave Nieman	Akron NY
182	81	Tr			W81AI	New York	Framlinville	42	Dave Nieman	Akron NY
183	82	Tr								
184	82	Tr								
185	83	Tr			W83AS	Wisconsin	La Crosse	229	Jeff Kadet	Macomb IL
186	83	Tr								

STATE/PROVINCE & FOREIGN COUNTRY STATS

JANUARY 1994

	COU/Pro/Rebs	#1 Total	#1 DXers Name	#1 DX Location	#2 Total	#2 DXers Name	#2 DX Location
1	UNITED STATES:						
2	Alabama	46	Jeff Kadet	Macomb IL	34	Fernando Garcia	Ciudad Guadalupe NL
3	Alaska	0			0		
4	Arizona	5	Jeff Kadet	Macomb IL	2	Fernando Garcia	Ciudad Guadalupe NL
5	Arkansas	26	Jeff Kadet	Macomb IL	8	Fernando Garcia	Ciudad Guadalupe NL
6	California	2	Fernando Garcia	Ciudad Guadalupe NL	1	Frank Wheeler	Erie PA
7	Colorado	16	Jeff Kadet	Macomb IL	5	Frank Wheeler	Erie PA
8	Connecticut	5	Dave Nieman	Akron NY	4	Jeff Kadet	Macomb IL
9	Delaware	0			0		
10	District of Columbia	5	Jeff Kadet	Macomb IL	5	Dave Nieman	Akron NY
11	Florida	80	Matt Sittel	Tallahassee FL	65	Fernando Garcia	Ciudad Guadalupe NL
12	Georgia	33	Matt Sittel	Tallahassee FL	32	Jeff Kadet	Macomb IL
13	Hawaii	0			0		
14	Idaho	4	Jeff Kadet	Macomb IL	0		
15	Illinois	73	Jeff Kadet	Macomb IL	23	Dave Nieman	Akron NY
16	Indiana	56	Jeff Kadet	Macomb IL	22	Dave Nieman	Akron NY
17	Iowa	62	Jeff Kadet	Macomb IL	6	Dave Nieman	Akron NY
18	Kansas	33	Jeff Kadet	Macomb IL	6	Greg Coniglio	Williamsburg NY
19	Kentucky	38	Jeff Kadet	Macomb IL	10	Dave Nieman	Akron NY
20	Louisiana	42	Fernando Garcia	Ciudad Guadalupe NL	23	Jeff Kadet	Macomb IL
21	Maine	3	Jeff Kadet	Macomb IL	1	Dave Nieman	Akron NY
22	Maryland	9	Jeff Kadet	Macomb IL	8	Dave Nieman	Akron NY
23	Massachusetts	10	Dave Nieman	Akron NY	4	Jeff Kadet	Macomb IL
24	Michigan	72	Jeff Kadet	Macomb IL	38	Dave Nieman	Akron NY
25	Minnesota	109	Jeff Kadet	Macomb IL	3	Dave Nieman	Akron NY

Country/Pro/State	#1 Total	#1 DXers Name	#1 DX Location	#2 Total	#2 DXers Name	#2 DX Location
26 Mississippi	26	Jeff Kadet	Macomb IL	24	Fernando Garcia	Cluded Guadalupe NL
27 Missouri	59	Jeff Kadet	Macomb IL	9	Dave Nieman	Akron NY
28 Montana	6	Jeff Kadet	Macomb IL	0		
29 Nebraska	29	Jeff Kadet	Macomb IL	10	Frank Wheeler	Erie PA
30 Nevada	3	Fernando Garcia	Cluded Guadalupe NL	2	Jeff Kadet	Macomb IL
31 New Hampshire	2	Dave Nieman	Akron NY	0		
32 New Jersey	6	Dave Nieman	Akron NY	5	Jeff Kadet	Macomb IL
33 New Mexico	5	Jeff Kadet	Macomb IL	0		
34 New York	97	Dave Nieman	Akron NY	53	Dave Nieman	Rock City NY
35 North Carolina	19	Jeff Kadet	Macomb IL	2	Dave Nieman	Akron NY
36 North Dakota	10	Jeff Kadet	Macomb IL	5	Dave Nieman	Akron NY
37 Ohio	83	Jeff Kadet	Macomb IL	52	Dave Nieman	Akron NY
38 Oklahoma	30	Jeff Kadet	Macomb IL	14	Fernando Garcia	Cluded Guadalupe NL
39 Oregon	0			0		
40 Pennsylvania	47	Dave Nieman	Akron NY	42	Dave Nieman	Rock City NY
41 Rhode Island	2	Dave Nieman	Akron NY	1	Jeff Kadet	Macomb IL
42 South Carolina	5	Jeff Kadet	Macomb IL	3	Fernando Garcia	Cluded Guadalupe NL
43 South Dakota	18	Jeff Kadet	Macomb IL	6	Dave Nieman	Akron NY
44 Tennessee	47	Jeff Kadet	Macomb IL	11	Fernando Garcia	Cluded Guadalupe NL
45 Texas	115	Fernando Garcia	Cluded Guadalupe NL	67	Jeff Kadet	Macomb IL
46 Utah	4	Jeff Kadet	Macomb IL	0		
47 Vermont	5	Dave Nieman	Akron NY	3	Greg Coniglio	Williamsville NY
48 Virginia	11	Jeff Kadet	Macomb IL	5	Dave Nieman	Rock City NY
49 Washington	3	Jeff Kadet	Macomb IL	1	Frank Wheeler	Erie PA
50 West Virginia	19	Jeff Kadet	Macomb IL	5	Dave Nieman	Akron NY
51 Wisconsin	61	Jeff Kadet	Macomb IL	14	Dave Nieman	Akron NY
52 Wyoming	4	Jeff Kadet	Macomb IL	2	Frank Wheeler	Erie PA
53 CANADA:						
54 Alberta	9	Jeff Kadet	Macomb IL	1	Frank Wheeler	Erie PA
55 British Columbia	1	Frank Wheeler	Erie PA	0		
56 Manitoba	7	Jeff Kadet	Macomb IL	3	Frank Wheeler	Erie PA
57 New Brunswick	4	Jeff Kadet	Macomb IL	2	Frank Wheeler	Erie PA
58 Newfoundland	4	Dave Nieman	Akron NY	4	Greg Coniglio	Williamsville NY
59 Nova Scotia	4	Dave Nieman	Rock City NY	3	Dave Nieman	Akron NY
60 Ontario	83	Dave Nieman	Akron NY	73	Greg Coniglio	Williamsville NY
61 Prince Edward Island	0			0		
62 Quebec	18	Dave Nieman	Akron NY	14	Jeff Kadet	Macomb IL
63 Saskatchewan	14	Jeff Kadet	Macomb IL	4	Frank Wheeler	Erie PA
64 MEXICO:						
65 Baja California	2	Fernando Garcia	Cludad Guadalupe NL	0		
66 Chihuahua	5	Jeff Kadet	Macomb IL	0		
67 Coahuila	4	Jeff Kadet	Macomb IL	1	Fernando Garcia	Cludad Guadalupe NL
68 Guanajuato	1	Jeff Kadet	Macomb IL	0		
69 Nuevo Leon	9	Fernando Garcia	Cludad Guadalupe NL	3	Jeff Kadet	Macomb IL
70 Tamaulipas	12	Fernando Garcia	Cludad Guadalupe NL	2	Jeff Kadet	Macomb IL
71 Veracruz	3	Jeff Kadet	Macomb IL	0		
72 Yucatan	4	Fernando Garcia	Cludad Guadalupe NL	1	Jeff Kadet	Macomb IL
73 Zacatecas	2	Jeff Kadet	Macomb IL	0		
74 Other Foreign:						
75 AUSTRALIA	1	Jeff Kadet	Macomb IL	0		
76 CUBA	6	Fernando Garcia	Cludad Guadalupe NL	4	Jeff Kadet	Macomb IL
77 DOMINICAN REPUBLIC	1	Jeff Kadet	Macomb IL	0		
78 EL SALVADOR	2	Fernando Garcia	Cludad Guadalupe NL	0		
79 GUATEMALA	1	Fernando Garcia	Cludad Guadalupe NL	0		
80 HONDURAS	2	Fernando Garcia	Cludad Guadalupe NL	0		
81 NORWAY	1	Jeff Kadet	Macomb IL	0		
82 PUERTO RICO	1	Jeff Kadet	Macomb IL	0		
83 SWEDEN	1	Jeff Kadet	Macomb IL	0		
84 USSR	1	Jeff Kadet	Macomb IL	0		
85 VENEZUELA	1	Greg Coniglio	Williamsville NY	0		

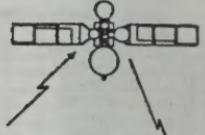
I'd like to thank all of you who contributed to this column. And encourage those who haven't; to send in your TV stats, records and totals. As you can see, there are some records and totals that go unclaimed. Now's the time to check that TV log; you may have a record in there. When you send in that record logging besure to include: channel, propagation mode, call letters, state/province or country, city of license and your calculated distance. When you send in your country/provinces/state totals; we're counting it by city of license not transmitter location.

I'm indebted to "TV NEWS" column editor Doug Smith for unselfishly sharing his distance calculation computer program. It made verifying distances so much easier.

Dave

SATELLITE NEWS

And now the 1994 yearly review of what's up in the sky. The video services are as accurate as I can be as of mid-October 1993. Many audio sub-carriers have been revised, but due to lack of time for monitoring, a number of SCPC items need to be updated. I hope that what follows is of some interest. One new item is the listing of Digital Video/Compression services. This is not really verifiable as equipment for domestic consumer use is not yet available.



George W. Jensen
4604 Anntana Avenue
Baltimore, MD 21206-4220

SATCOM 5 - AURORA - 139 WEST 1991

(10 YEARS) 10 WATTS
FORMAT - ODDS - VERTICAL / EVENS - HORIZONTAL

VIDEO SERVICES =

13 - FEEDS
17 - FEEDS
18 - FEEDS
24 - ALASKA SATELLITE TV PROJECT
NOTE = ODD TRANSPONDERS - BEAMED TO CONTINENTAL USA EVEN TRANSPONDERS SPOT

BEAMED TO ALASKA

AUDIO SUBCARRIERS

24 - KSKA - 91.1 ANCHORAGE, ALASKA TALKING BOOK SERVICE

SCPC SERVICES =

based on the HEIL format use vertical transponders CONUS

BEAM AS AN EXCEPTION

206 - RFD RADIO NETWORK

215 - BROWNFIELD NETWORK

221 - BUSINESS RADIO NETWORK

238 - BROWNFIELD NETWORK

245 - MISSOURI NETWORK

246 - NORTH CAROLINA NETWORK

382 - AFTRS - ARMED FORCES

393 - AP NETWORK NEWS

394 - NBC RADIO NEWS

718 - 727 - VARIOUS TRANSTAR RADIO FEEDS

SATCOM C5 - 137 WEST FALL 1990 (10 YEARS)

8.5 WATTS
FORMAT - ODDS - HORIZONTAL /

EVENS VERTICAL

VIDEO SERVICES =

1 - VIDEO COMPUTER STORE AND OTHERS

2 - KUSA - CH 9 - DENVER, COLORADO - VC2 ABC

3 - KRMA - CH 6 - DENVER, COLORADO - VC2 PBS

4 - SPORTS CHANNEL PACIFIC - VC2

5 - HONG KONG JADE NETWORK

evenings for USA

6 - KMGH - CH 7 - DENVER,

COLORADO - VC2 CBS

7 - PRIME TICKET LOS ANGELES - VC2

8 - NBC FEEDS

9 - FUTURE MART AND OTHERS /

SPORTS CHANNEL

10 - HOME SPORTS ENTERTAINMENT VC2

11 -

12 - SPORTS CHANNEL AMERICA VC2

13 - SPORTS CHANNEL - CHICAGO VC2

14 - KCNC - CH 4 - DENVER,

COLORADO VC2

15 - SPORTS CHANNEL CINCINNATI,

FLORIDA, OHIO VC2

16 - SILENT NETWORK / DISABILITY CHANNEL

17 - NHK - TOKYO, JAPAN

18 - SPORTS NETWORK / RUSSIAN NET OF AMERICA

19 - FOX CHANNEL AND NETWORK

20 - INTERNATIONAL CHANNEL VC2

22 - day - CAL-CHANNEL / night PRIME SPORTS NORTHWEST - VC2

23 - KWGN - CH 2 - DENVER,

COLORADO ind.

24 - SUNSHINE NETWORK VC2 (SPORTS)

AUDIO SUBCARRIERS =

2 - PEOPLE'S NETWORK

3 - IN-TOUCH READING SERVICES

6 - BONNEVILLE RADIO NETWORK

(CHURCH OF LATTER DAY SAINTS)

20 - INDEPENDENT BROADCASTERS NETWORK

SCPC = none

SATCOM C4 - 135 WEST AUGUST 31, 1992 (12 YEARS)

FORMAT = ODDS - VERTICAL/EVENS - HORIZONTAL 17 WATTS

VIDEO SERVICES

1 - AMERICAN MOVIE CLASSICS VC2

2 - REQUEST 2 - PAY-PER-VIEW DV

DV--DIGITAL VIDEO

3 - NICKELODEON - EAST VC2

4 - LIFETIME - EAST VC2

5 - DEUTSCHE WELLE - GERMANY

6 - MADISON SQUARE GARDEN VC2

7 - BRAVO VC2 nights

8 - PREVIEW GUIDE

9 - QVC SHOPPING NETWORK

10 - HOME SHOPPING CLUB 1

11 - THE BOX

12 - NU-STAR CABLE PROMOS

13 - TRAVEL CHANNEL

14 - THE FITNESS CHANNEL

15 - WWOR - CH 9 - SECAUCUS, NEW JERSEY (N.Y.C.)

16 - REQUEST 1 PAY-PER-VIEW VC2

17 - MTV EAST VC2

18 - VIEWERS CHOICE 2 PAY-PER-VIEW DV (HOT CHOICE)

19 - C-SPAN 2

20 - SHOWTIME - WEST VC2

21 - DISCOVERY VC2

22 - MOVIE CHANNEL - WEST VC2

23 - VIDEO HITS 1 (VH1) VC2

24 - COUNTRY MUSIC TELEVISION VC2

AUDIO SUBCARRIERS - NONE

SCPC - NONE NOTED

GALAXY 1 - 133 WEST JUNE 28, 1983 (9-10 YEARS)

FORMAT = ODDS HORIZONTAL /

EVENS VERTICAL 9 WATTS

VIDEO SERVICES =

1 - COMEDY CENTRAL - WEST VC2

2 - ACTION PAY-PER-VIEW VC2

3 - ENCORE VC2

4 - FOODS NETWORK

5 - ALL NEWS CHANNEL VC2

6 - UNIONVISION

7 - SHOP-AT-HOME

8 - THE CARTOON CHANNEL VC2

9 - SHOP-AT-HOME

10 - FLIX VC2

11 - EWTN

12 - VALUE VISION

13 -

14 - SHOP-AT-HOME occ.

15 - Z - THE CHRISTIAN MUSIC CHANNEL

16 - SHOWTIME 2 VC2

17 - THE NEW INSPIRATION NETWORK

18 - HBO DIGITAL COMPRESSION

VIDEO TEST CHANNEL DV

19 - CINEMAX - EAST VC2

20 - GALAVISION (SPANISH)

21 - U.S.A. NETWORK - WEST VC2

22 - NOSTALGIA

23 - HBO - EAST VC2

24 - THE DISNEY CHANNEL - WEST VC2

AUDIO SUBCARRIERS =

NONE

SCPC =

NONE

SATCOM C-3 131 WEST 1992 (10 YEARS)

FORMAT = ODDS VERTICAL / EVENS

HORIZONTAL 17 WATTS

VIDEO SERVICES =

1 - FAMILY CHANNEL - WEST VC2

2 - LEARNING CHANNEL

3 - VIEWERS CHOICE 1 PAY-PER-VIEW

VC2

4 - LIFETIME WEST VC2

5 - VSN / ACTS

6 - COURT TELEVISION

7 - C-SPAN 3

8 - QVC FASHION CHANNEL

10 - HOME SHOPPING CLUB 2

11 - PRIME NETWORK SPORTS - LOS ANGELES

13 - THE WEATHER CHANNEL VC2

14 - NEW ENGLAND SPORTS NETWORK VC2

15 - SHOWTIME - EAST VC2

16 - MTV - WEST VC2

17 - THE MOVIE CHANNEL - EAST VC2

18 - NICKELODEON - WEST VC2

19 - COMEDY CHANNEL - WEST VC2

20 - MIND EXTENSION UNIVERSITY

21 - COMEDY CHANNEL - EAST VC2

22 - NEWSPORTS

23 - E! - ENTERTAINMENT CHANNEL

AUDIO SUBCARRIERS

23 - CABLE RADIO NETWORK

SCPC - NONE

ASC1 - 138 WEST AUGUST 27, 1985 (8.5 YEARS)

C and Ku

FORMAT=ODDS - HORIZONTAL /

EVENS - VERTICAL 8/16 WATTS Ku

VIDEO SERVICES =

MAINLY FEEDS - CAN ACCOMODATE

PAL, SECAM, AND NTSC

OPEN PUBLIC EVENTS NETWORK -

NORTH CAROLINA - XPDRA VARIES

12 - WORSHIP - CHRISTIAN

TELEVISION

20 - CHANNEL AMERICA

22 - MIDWEST SPORTS CHANNEL VC2

23 - SCOLA - FOREIGN LANGUAGE

NEWSCASTS WORLDWIDE

Ku BAND

SPORTS, RACING, AND NEWS

FEEDS/BANDERA DOWNS/BLUFF'S

RUN, ETC.

24 - ID CHANNEL IN MAC

AUDIO SUBCARRIERS=

C-BAND

22 - WCCO - MINNEAPOLIS,

MINNESOTA

SCPC = NONE

G-STAR 2 124 WEST 14-20 WATTS/2-27 WATTS 1986

10 YEARS / 1-9 horizontal / 9-16 vertical

UNIDEN RECEIVER COMPENSATES

TO A 32 CHANNEL FORMAT

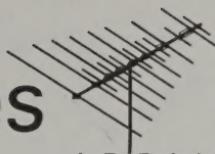
19 - CNN AIRPORT CHANNEL

22 - CNN INTERNATIONAL LEITCH

SATELLITE NEWS ANNUAL REVIEW OF SERVICES

TO BE CONTINUED NEXT MONTH!

ANTENNAnotes



by Dr. Feedpoint

The most important single part of any VHF weak signal receiving system is the antenna. This is something that far too many DX enthusiasts don't seem to properly "grasp." Most of you out there probably got to the TV and FM side of the DX'ing hobby by way of the Shortwave bands...and those bands are a "way cool" place for long distance reception. All you have to do is string a piece of copper wire across the yard, pick the appropriate frequency bands, turn the radio on, and you'll easily hear worldwide DX in one night! If you get more "into it" you may want to cut a half-wave dipole for the band(s) of your personal interest. And that's about all you ever need, unless you decide go for a "gain antenna" such as a yagi, or quad, usually only used by amateur radio operators.

But when you get up to VHF (30 to 300 MHz) and above, things are different. Way different. So different, in fact, that it means that the sucessful TV or FM DX fanatic must also be something of an "antenna buff." That piece of copper wire that works so well receiving the world at 15 MHz is nearly useless up on channel 13, and forget about using it to seriously chase 700 mile tropo ducts on 100.3 MHz.

If you want to know how to pick and choose (and install) commercially available TV and FM antennas that will make for the best DX results in your location, then this series of columns is for you. These are being written in late 1993 for publication in the VUD in 1994. As of this writing, antennas for TV and FM are still commercially available for decent prices, sometimes even sold by WFTDA members (watch for their VUD ads) at very reasonable prices. Don't believe that pimple-faced idiot at the local Radio Shack who may try to convince you that the major manufacturers such as Channel Master, Winegard, General Instrument, etc. no longer make antennas. The quality stuff is still available, albeit a bit harder to locate in this age of CATV, VCR, and just plain consumer ignorance about how to receive anything but a Domino's Pizza from a long distance.

Since you are already a WFTDA member you probably already are something of an authority of the local and regional stations in your area, and you probably have a good idea of what kind of equipment is needed to pick them up. If so, then congratulations to you--that makes you "one up" on your neighbors, who probably have nervous breakdowns whenever the local cable TV company have an outage, depriving them of the thrill of watching that local TV station from 3 miles away.

TV and FM DXers need to know some basic antenna concepts in order to make the right choices. We don't want to go too deeply into theory here--there are plenty of good references, which we'll suggest in a later column, for just that purpose. We're going to try to also answer some of the more frequently asked antenna questions (Example -- Q: Can I use my C.B. antenna with a low-noise pre-amp to DX UHF TV? A: Not unless you're a real die-hard optimist, Bubba.)

The main mission of the feature is meant to be education. I'm out to tell you stuff you need to know about your antenna. What kind of antenna do YOU use? I notice some members report using rabbit ears. My advice: lose 'em -- even a couple of shower curtain rods can be made to work better than them, or better still, a simple quad loop made from bell wire or lamp cord for pennies. I'm going to devote a column or two, or three to such simple homebrew projects for those of you who can't or won't put something up on the roof.

There's a lot of "hokum" about antennas out there. Everyone wants to know "which antenna works best?" There's no easy answer to that one. I've found that it all depends upon the needs of the individual DXer. The antenna that works best in a stacking situation often is not the best one to use in "single-bay" configuration. Some of the models I notice DXers using have TERRIBLE front/back ratios. Many DXers appear to ignore the value of a good low-loss feed line (or "lead-in" as some call it.) And...wait 'til you hear some of the things you don't know about the importance of antenna height. It will be enough to make you want to move to the nearest hill. Height often beats higher gain antennas, in many, many "real-world" situations. I promise to try to cover these, and many other topics in forthcoming installments!

Next Column: My Antenna is Bigger Than Yours, or "It's Not How Much, It's How Many Times That Count." We're talking about the dB here folks. Don't get so excited.

EDITOR'S NOTE: Dr. Feedpoint is a CET who works for a midwestern U.S. firm installing LAN networks, MATV/SMARTV systems and TVRO systems. He's not really a Doctor, his name isn't really Feedpoint, and he says his boss will kill him "if he finds out I'm writing this stuff on company time."



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